12-03-1938: application no. a-1765, permit no. a-1093

Grand Canyon, Arizona.
December 3, 1938.

APPLICATION NO.: A-1765.

COVERING APPROPRIATION OF WATER FROM: Roaring Springs.

AMOUNT: 150,000 gals. per day for municipal use.

FOR USE AT: Grand Canyon Lodge and other North Rim Facilities.

DATE OF FILING: April 30, 1937, at 9:00 a.m.

FILING FEE: $3.00, Receipt No. 3296, dated April 30, 1937.

RECORDING FEE: $5.00, Receipt No. 3344, dated June 17, 1937.

PERMIT NO.: A-1093.

PERMIT DATED: June 29, 1937.

DATE OF PRIORITY: April 30, 1937.

DATE BY WHICH CONSTRUCTION SHALL BEGIN: June 28, 1938.

DATE BY WHICH CONSTRUCTION SHOULD BE COMPLETED: June 28, 1942.

DATE BY WHICH COMPLETE USE OF WATER SHALL BE MADE: On or before June 28, 1943.

NOTICE OF BEGINNING OF CONSTRUCTION: This, together with "Notice of Completion of Construction" and "Notice of Complete Application of Water to Beneficial Use" was filed with my letter of August 4, 1937, with the State Water Commissioner. By Mr. Stewart's letter of August 14, 1937, he advised as follows: "Your attention is directed to the fadt that this application, which was filed on April 30, 1937, proposed to begin additional construction within one year; to complete construction within four years by enlarging pump units and to completely apply the water to the proposed use within five years. The application also states that the present 400 persons per day should grow to 1500 within five years and the present 20 miles be increased to 100, permit was granted accordingly. We, therefore, do not consider the filing of any of these notices, except the 'Notice of Beginning of Construction' desirable at this time. The notices are all returned herewith, together with a new set. You may prepare and file notice of beginning construction and when construction is finally completed and the water completely applied to use the other two should be filed". For this reason, "Notice of Beginning of Construction" only has been filed.

FURTHER ACTION REQUIRED: Although the construction work was really completed at the time application for a permit was made, it was thought that

there might be some additions to the pump, storage, or distribution system. For this reason the 1942 date was requested to allow the total completion of the system by any possible additions and it will be noted that June 28, 1942, is given as the date on which final construction work will be completed; consequently, on or before that date "Notice of Completion of Construction" shall be filed. Furthermore, if any additional work is done in the way of enlarging the system before that date, there must be filed with the State Water Commission "Notice of Beginning of Additional Construction." Also, on or before June 28, 1943, there must be filed with the State Water Commission formal "Notice of Proof of Appropriation of Water". Upon filing of such notice and payment of the required fee ($3.50 at present), a Certificate of Water Right will be issued by the State Water Commission. In that connection, reference is made to Chief Engineer Prater's letter of July 21, 1937, in which he states that construction work was started on the Roaring Springs water supply system on August 24, 1927; that the work was completed on March 27, 1928, and that water from this system was first delivered to the North Rim on approximately April 1, 1928.

REMARKS: Copy of Application No. A-1765 (Permit No. A-1093), together with a copy of this summary is being sent to the Director and to Mr. Joseph E. Taylor. With my letter of September 9, 1937, I sent to Mr. B. H. Prater, Chief Engineer, Union Pacific System, a copy of Application No. A-1765 (Permit No. A-1093). I am now sending him a copy of this summary. The original of all papers, receipts and documents in connection with this case is on file in my office.

M. R. Tillotson,
Superintendent.

Re Grant

Carbon cc Application No.: A-1765
Dec. 3, 1938

Carbon copy
of Dept. Bryant to Jane C. Wensler
April 22, 1942

Carbon Copy Order, Granting Ext. of Time
April 23, 1942

Order blanks by number and title in their numerical sequence

1—633

UNITED STATES
DEPARTMENT OF THE INTERIOR

_____ (Office and location) _____ (Date)

ADDRESS:
Mail:_____ Freight_____ Express_____

_____

SIR: Please furnish the following forms for use in this office during the_____ months ending_____, 19____.

Number of employees_____; number of pupils_____

_____ (Name and designation)

Approved and respectfully referred to the Chief Clerk of the Interior Department. (Do not write on the line below)

_____, _____ (Designation)
_____, 19____

All requests for blanks should be made on this form and *not by letter*. Columns 1, 2, 3, and 4 should be filled by the person ordering. Articles of stationery must not be included in requisitions for blank forms. Be sure to give correct addresses.

Please fill in with typewriter

1 Quantity on hand	2 Title of blank or blank book	3 Form No.	4 Quantity requested	5 Quantity sent	6 Packer's check	*7 Due check		8 Charge check	9 Cost	

DATE SHIPPED: Freight_____ Mail_____ Express_____

*Items checked due in column 7 will be sent later.

IMMEDIATELY after the items in column 5 are received, please date and sign below and return this invoice to the Secretary of the Interior.

Received_____, 19____ _____ (Name and designation)

U. S. GOVERNMENT PRINTING OFFICE 6—5879

WATER RESOURCES/WATER RIG ; DATE: August 31, 1973

WATER RIGHT/SOURCE DOCKET INFORMATION

REGION Western Region AREA Grand Canyon National Park

SITE Roaring Springs

STATE Arizona COUNTY Coconino DOCKET NO WR #3

LOCATION SW 1/4, SE 1/4, Sec.2, T32N, R3E, G&SRB&M

REGIONAL BASIN LOCAL BASIN

ACQUIRED BY Appropriation

APPLICATION A-1765 PERMIT A-1093 (cancelled) CERTIFICATE

ACTION DUE PRIORITY April 30, 1937 RESERVATION Jan. 11, 1908

QUANTITY 150,000 GPD USE Public Supply and Domestic

STATUS Active SOURCE Spring

REMARKS Water system for the North Rim

Hydrologic Unit #15010001

NARRATIVE: The National Park Service filed application A-1765 with the state of Airzona on April 30, 1937. This was an application to appropriate 150,000 gallons of water per day from Roaring Springs Creek. This water was then being used by the concessionaire on the North Rim (Utah Parks Co.--Fred Harvey); the Park Service filed this application to perfect the water right in the name of the United States. Permit A-1093 was granted for this project on June 29, 1937.

In the late 1920's the concessionaire built a pipeline down to Roaring Springs Creek, just downstream from where spring water entered the creek. At this point water was diverted from the creek to the pipeline. An electrical generation plant was also located on Bright Angel creek just downstream from the point where it joined Roaring Springs creek. This electricity was used to operate the pumps to drive water up to the North Rim and apparently for all electrical needs "on top". It supplied all water needs for the North Rim for both the Park Serviceaand the concessionaire.

Thus when the application was filed, the water was already being diverted. At the periodic request of the Park, however, the State granted several extensions of time for the completion of the project. The last extension set the date for the completion of construction as December 31, 1967.

Commercial power was brought into the North Rim around 1960. At that time, the electrical generation plant was taken out of service, and the previously used power lines now carried energy down to operate the pumps.

In the enormous flood of December 5-6, 1966, both the water-collection and power-generating dams were washed out. The water diversion dam was rebuilt, and is in use at this time.

WE BELIEVE that the extensions of time found in this docket may have been necessary in order to ensure the right to their partial or full use during the months when the North Rim is open for visitation.

The State Land Department sent to the Park an order to show cause why application A-1765 should not be cancelled. The matter was referred to this office on August 22, 1973, and on September 14 we made application for an extension of time to complete construction and make proof of appropriation.

See update on following page.

Compiled by Wm. N. Murray

Approved by W. Werrell

Roaring Springs Supplemental Report

On September 27, 1973, the Arizona State Land Department granted the NPS an extension of time on the Commissioner's Order to Show Cause to October 1, 1974. The Commissioner cancelled Application A-1765 on October 28, 1974, after the NPS failed to justify a further time extension on this water system. The position of the Service as stated in a memorandum dated Nov. 14, 1974, was as follows: Application A-1765 was active and water from Roaring Springs was being used regularly. However, as other applications in Grand Canyon were not being used presently, it was felt that acquisition of license on Roaring Springs would imply a waiver of those other possible water sources. Therefore, we allowed cancellation of the applications by Arizona and will utilize the Reservation Doctrine if water from those sources is needed in the future.

As to the application of the 1974 Arizona Water Registration Law, since Application A-1765 has been cancelled, the NPS has no valid water right under Arizona law for Roaring Springs. The Water Registration Law by its terms applies only to existing water rights, so it need not be complied with here. As previously stated, the NPS can rely on the Reservation Doctrine for use of water at Roaring Springs.

Kevin Kidder
June 30, 1976

10-28-1974: state land department of the state of arizona before the state land commissioner; order of cancellation; application no

STATE LAND DEPARTMENT OF THE STATE OF ARIZONA
BEFORE THE STATE LAND COMMISSIONER

WR#3

IN THE MATTER OF APPLICATION TO APPROPRIATE WATER NO. **A-1765** **PERMIT NO. A-1093**	
Roaring Springs/Roaring Springs Creek/Bright Angel Creek	ORDER OF CANCELLATION
Applicant, Grand Canyon National Park	

Upon the files and records of the Arizona State Land Department, the State Land Commissioner, being fully advised in the premises, hereby makes the following findings of fact:

1. That Application to Appropriate Water No. **A-1765** was filed with the Arizona State Land Department on **April 30, 1937** . That the said Applicant has not proceeded with due diligence to perfect said Application to Appropriate Water and was Ordered to Show Cause, if any there be, on or before **September 17, 1973** , why said application should not be cancelled.

2. That said Applicant has not shown cause nor did Applicant appear to show cause why Application to Appropriate Water No. **A-1765** should not be cancelled and it is in the best interest of the State to cancel said application due to Applicant's lack of diligence.

NOW, THEREFORE, IT IS HEREBY ORDERED that Application to Appropriate Water No. **A-1765** heretofore filed by **Grand Canyon National Park, National Park Service, P.O. Box 36063, San Francisco, California 94102** , Applicant(s) be and the same hereby is cancelled.

This Order is subject to appeal as in such cases is provided by the laws of the State of Arizona.

GIVEN under my hand and the official seal of the Arizona State Land Department this **28th** day of **October** , 19 **74** .

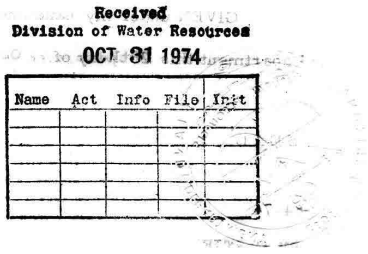
SEAL

Rudolph Bilby
STATE LAND COMMISSIONER

64-74

BY CERTIFIED MAIL 569699

10-31-1974: stamp of receipt



08-31-1973: state land department of the state of arizona before the state land commissioner; order to show cause; application no

RECEIVED
Grand Canyon National Park
AUG 1 4 1973
Chf. EPS
N. R. Mgt.

STATE LAND DEPARTMENT OF THE STATE OF ARIZONA

BEFORE THE STATE LAND COMMISSIONER

IN THE MATTER OF)
APPLICATION NO. A-1765)
TO APPROPRIATE WATER)
)
Re: Roaring Springs/Roaring Springs)
Creek/Bright Angel Creek/)
)
Grand Canyon National Park, Applicant)
)
)

ORDER TO SHOW CAUSE

The Arizona State Land Department, through its Water Rights Division, on lack of information that the above named applicant has complied with the requirements of ARS Section 45-150 relating to the completion of construction to appropriate surface waters, and further on the belief that the above named applicant has not complied with the requirements of Article I, Chapter IV, Rule 13 of the rules and regulations of the State Land Department governing surface waters, copy attached, HEREBY ORDERS that the above named applicant on or before 17th day of September, 19 73, personally or by verified writing appear and show cause why the State Land Department should not cancel the above numbered application to appropriate the certain waters herein described.

GIVEN under my hand and the Official Seal of the State Land Department this 13th day of August, 19 73.

ARIZONA STATE LAND DEPARTMENT

SEAL

Rudie Bettany
STATE LAND COMMISSIONER

Upon the written request of applicant, and due cause having been shown the date set for hearing the Order to Show Cause set forth above is hereby advanced to the _____ day of _____, 19_____.

ARIZONA STATE LAND DEPARTMENT

STATE LAND COMMISSIONER

BY CERTIFIED MAIL 570270

09-27-1973: letter to nps from arizona state land department regarding an extension of time on the commissioner's order on 10 ap

Copy 9

JACK WILLIAMS
GOVERNOR

Arizona
State Land Department
1624 WEST ADAMS
PHOENIX, ARIZONA 85007
602 - 271-4634

ANDREW L. BETTWY
STATE LAND COMMISSIONER

September 27, 1973

Mr. Gustav W. Muehlenhaupt
Acting Regional Director
U. S. Department of the Interior
National Park Service
Western Region
Post Office Box 36063
San Francisco, California 94102

Dear Mr. Muehlenhaupt:

As per your request of September 14, 1973, find enclosed an extension of time on the Commissioner's Order To Show Cause on Application Nos. A-2823, A-1765, A-1880, A-3095, A-2601, A-2602, A-1878, A-1799, A-1881 and A-1766 to and including the 1st day of October, 1974.

Very truly yours,

Wm Joe Melling

Wm. Joe Melling, Director
Water Rights Division

WJM/jaw

Enclosures

09-14-1973: letter to state of arizona from nps regarding request for an extension of time

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WESTERN REGION
450 GOLDEN GATE AVENUE, BOX 36063
SAN FRANCISCO, CALIFORNIA 94102

N REPLY REFER TO:

L54(WR)PSW
Water Rights/General

September 14, 1973

State Land Commissioner
State Land Department of the
State of Arizona
1624 West Adams - 4th Floor
Phoenix, Arizona 85007

Dear Sir:

This is in response to your orders to show cause in regard to applications listed below. In accordance with the telephone conversation of August 29 between Mr. William Melling of your office and Mr. Gerard Witucki of this office, a request is hereby made for an extension of time regarding these applications.

In reviewing our files concerning these applications, we have determined that the water usages under the following permits continue to have regular and active use:

Application A-2823, Permit A-1987 for Lower Saddlehorse Springs in Grand Canyon National Monument.
Application A-1765, Permit A-1093 for Roaring Springs.
Application A-1880, Permit A-1194 for Bright Angel Creek for South Rim of the Grand Canyon.
Application A-3095, Permit A-2147 for Rio Puerco water system in Petrified Forest National Monument.
Application A-2601, Permit A-1829 for Cholla Spring #1 in Tonto National Monument.
Application A-2602, Permit A-1830 for Cholla Spring #2 in Tonto National Monument.

The following diversionary systems are in place, operable, and are being maintained on a standby basis for use during emergencies or while repairs are being made to the principal water-delivery systems:

Application A-1878, Permit A-1192 for Bright Angel Creek
Application A-1799, Permit A-1132 for the Bonita Canyon Springs water system at Chiricahua National Monument.

The systems to which the following permits refer have not been used regularly therefore; we have placed these water usages on our inactive list:

Application A-1881, Permit A-1195 for the Bright Angel Creek hydroelectric system for Phantom Ranch.
Application A-1766, Permit A-1094 for Bright Angel Creek for Phantom Ranch.

Substantial funds were expended in planning and construction for the projects related to these applications, and we believe that increasing Park visitation and expansion of facilities may someday require the implementation of these projects.

Sincerely,

SIGNED

Gustav W. Muehlenhaupt
Acting Regional Director

bc:
Ass't Regional Director, Arizona
Superintendent, GRCA
Superintendent, PEFO
Superintendent, TONTO NM
Superintendent, CHIRICAHUA NM
Field Solicitor, San Francisco
Field Solicitor, Arizona

(WR)PSSW:WNMurray:GSWitucki:mpm 9/14/73

09-13-1965: letter to nps from state of arizona regarding reference to letter requesting permit no. a-1093 be amended

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

LOUIS C. DUNCAN
MANAGER
PHONE 271-4621

September 13, 1965

ACCOUNTING DIVISION
PHONE 271-4622

LEASING DIVISION
PHONE 271-4634

LEGAL DIVISION
PHONE 271-4626

MINERAL, OIL & GAS
PRODUCTION DIVISION
PHONE 271-4628

SALES DIVISION
PHONE 271-4631

SERVICE DIVISION
PHONE 271-4637

SOIL CONSERVATION
DIVISION
PHONE 271-4625

WATER DIVISION
PHONE 271-4629

WATERSHED
MANAGEMENT DIVISION
PHONE 271-4633

RECEIVED
NPS SOUTHWEST REGIONAL O...
SEP 16 1965
Surname
Regional Director
Operations
Administration
10/26

Southwestern Regional Office
National Park Service
P. O. Box 728
Santa Fe, New Mexico 87501

Attention: Mr. George W. Miller
Assistant Regional Director Operations

Gentlemen:

Reference is made to your letter dated January 21, 1965 in which you formally requested that Permit No. A-1093 be amended to allow a secondary place of use for the waters to be appropriated under the Permit.

The subject letter and your map No. NP-GC-7108 (Roaring Springs to Indian Gardens Water Pipe-Line, January 1965) have been made a part of Permit No. A-1093 and its file.

It is the understanding of the Department that to date, full application of the permitted water to beneficial use has not been made.

Your request to amend Permit No. A-1093 to include a secondary place of use at the location named and by the means of the system mentioned and described in the letter and map referred to above is hereby approved subject to the limitations and conditions noted in that Permit, and to prior existing rights as provided by law.

Yours very truly,

O M Lassen

OBED M. LASSEN
STATE LAND COMMISSIONER

OML:dmc

AMENDMENT APPROVED

L54 Fica

01-21-1985: letter to state of arizona from southwest region, santa fe, new mexico regarding formal request for an amendment by

Southwest Region
Santa Fe, New Mexico
87501

L54

JAN 21 1985

Obed M. Lassen
State Land Commissioner
State Land Department
State of Arizona
State Office Building
Phoenix, Arizona 85000

Dear Sir:

This letter is a formal request for an amendment by supplement to Permit No. A-1093 in the name of the United States of America for the National Park Service. This Permit was issued as a result of Application No. A-1765.

At the present time most of the municipal water utilized at Grand Canyon National Park is based on Permit A-1091 for the South Rim and the above mentioned Permit A-1093 for the North Rim. A-1091 appropriates the waters from Indian Gardens Springs located on the Tonto Plateau below the South Rim at Grand Canyon Village. During the past decade because of increased visitation and resulting use, Indian Gardens Springs did not produce sufficient water during the summer months. As a result during this season all of the waters from the spring have been pumped to the South Rim. In order to obtain sufficient water to operate even with rationing and re-use of sewage effluent for non-consumptive use it has still been necessary to purchase and haul water from Williams, Arizona. To alleviate this problem the National Park Service spent thousands of dollars over a period of several years on geological and engineering studies. The results of these studies revealed that diversion works from Roaring Springs located on the North Rim of Grand Canyon and 12.4 miles of pipe line to Indian Gardens called the Trans-Canyon Water Line, would be the most feasible method to augment our water supply. This pipe line will be 65,435' long. Included is 41,880' of 6" high pressure line and 23,555' of 8" high pressure line. The route of this line is indicated on the enclosed drawing and will cost $2,300,000. The water will be utilized as a supplemental water supply for the Grand Canyon Village use area as indicated on the map. This includes two lodges and a motel (a total of 356 units), visitor center, campgrounds, 9 million gallon storage for a permanent populace of 1200

during the winter months and 1700 during the summer months. Primary use is by visitors which totaled 1,600,000 during 1964. This figure is expected to reach 3 million within the next two decades.

Present water rights allow for 150,000 gpd on the North Rim and 300,000 gpd on the South Rim rated as municipal use. At the present time our yearly water use is less than our right, however, our daily water needs now during peak use periods, are in excess of the 450,000 gpd.

Therefore, it is respectfully requested that an amendment to Permit No. A-1093 be allowed by the State of Arizona to transfer water from the North Rim to the South Rim of Grand Canyon National Park via the above described pipe line and that ultimate use under this permit be increased by 150,000 gpd or 168.0 acre feet per year.

The enclosed overall plan of the water system was drawn according to instructions by telephone from Mr. P. C. Ryan, Supervisor in your Water Division and is self explanatory. The actual plans and specifications including details, bearings and distances, etc., will be furnished upon request and any additional information required will be supplied.

Sincerely yours,

(SIGNED)

Daniel B. Beard
Regional Director

Enclosure

cc: Director (2) w/enc.
Chief, WODC (2) w/enc.
Superintendent, GRCA w/enc.

07-22-1965: letter to state of arizona from southwest region regarding issue of permit no. a-109 as a result of application no. a-176

Fields

Southwest Region
P.O. Box 728
Santa Fe, New Mexico
87501

L54

JUL 22 1965

Mr. Obed M. Lassen
State Land Commissioner
State Land Department
State of Arizona
State Office Building

Dear Sir:

On January 21 we requested an amendment to Permit No. A-1093 in the name of the United States of America for supplemental water and a change of method and place of use at Grand Canyon National Park. The above mentioned permit was issued as a result of Application No. A-1765.

This request was for the purpose of transferring water from the north rim of Grand Canyon to the south rim. As you are probably aware, construction has already started on the pipeline from Roaring Springs to Indian Gardens.

By telephone we have been informed that the request was received by your water rights division, however, it has not been acted upon because of more pressing matters in that division.

We would again like to request that the amendment to Permit No. A-1093 be allowed by the State of Arizona at your earliest convenience.

Sincerely yours,

(SIGNED)

George W. Miller
Assistant Regional Director
Operations

cc: Superintendent, Grand Canyon NP

WEFields:dmr
7/22/65

L 54 Gran

01-21-1965: letter to state of arizona from southwest region regarding formal request for an amendment to permit no. a-1093; appl

A-1093
Roaring Springs

Fields
Hall
Gum

Southwest Region
Santa Fe, New Mexico
87501

L54

JAN 21 1965

Obed M. Lassen
State Land Commissioner
State Land Department
State of Arizona
State Office Building
Phoenix, Arizona 85000

Dear Sir:

This letter is a formal request for an amendment by supplement to Permit No. A-1093 in the name of the United States of America for the National Park Service. This Permit was issued as a result of Application No. A-1765.

At the present time most of the municipal water utilized at Grand Canyon National Park is based on Permit A-1091 for the South Rim and the above mentioned Permit A-1093 for the North Rim. A-1091 appropriates the waters from Indian Gardens Springs located on the Tonto Plateau below the South Rim at Grand Canyon Village. During the past decade because of increased visitation and resulting use, Indian Gardens Springs did not produce sufficient water during the summer months. As a result during this season all of the waters from the spring have been pumped to the South Rim. In order to obtain sufficient water to operate even with rationing and re-use of sewage effluent for non-consumptive use it has still been necessary to purchase and haul water from Williams, Arizona. To alleviate this problem the National Park Service spent thousands of dollars over a period of several years on geological and engineering studies. The results of these studies revealed that diversion works from Roaring Springs located on the North Rim of Grand Canyon and 12.4 miles of pipe line to Indian Gardens called the Transcanyon Water Line, would be the most feasible method to augment our water supply. This pipe line will be 65,435' long. Included is 41,880' of 6" high pressure line and 23,555' of 8" high pressure line. The route of this line is indicated on the enclosed drawing and will cost $2,300,000. The water will be utilized as a supplemental water supply for the Grand Canyon Village use area as indicated on the map. This includes two lodges and a motel (a total of 356 units), visitor center, campgrounds, 9 million gallon storage for a permanent populace of 1200

L54 Green

during the winter months and 1700 during the summer months. Primary use is by visitors which totaled 1,600,000 during 1964. This figure is expected to reach 3 million within the next two decades.

Present water rights allow for 150,000 gpd on the North Rim and 300,000 gpd on the South Rim rated as municipal use. At the present time our yearly water use is less than our right, however, our daily water needs now during peak use periods, are in excess of the 450,000 gpd.

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The enclosed overall plan of the water system was drawn according to instructions by telephone from Mr. F. C. Ryan, Supervisor in your Water Division and is self explanatory. The actual plans and specifications including details, bearings and distances, etc., will be furnished upon request and any additional information required will be supplied.

Sincerely yours,

(SIGNED)
Daniel S. Beard
Regional Director

Enclosure

cc: Director (2) w/enc.
Chief, WODC (2) w/enc.
Superintendent, GRCA w/enc.

WEFields:jfd
1/19/65

12-23-1964: letter to nps from state of arizona regarding reference of conversation relative to a proposed change in place of use u

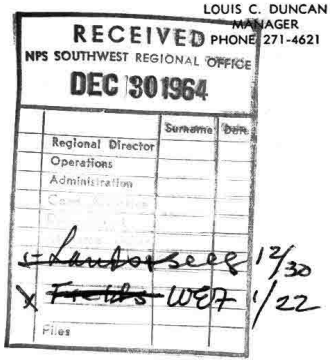
STATE LAND DEPARTMENT

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

LOUIS C. DUNCAN
MANAGER
PHONE 271-4621

December 23, 1964



ACCOUNTING DIVISION
PHONE 271-4622

LEASING DIVISION
PHONE 271-4634

LEGAL DIVISION
PHONE 271-4626

MINERAL, OIL & GAS
PRODUCTION DIVISION
PHONE 271-4628

SALES DIVISION
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SERVICE DIVISION
PHONE 271-4637

SOIL CONSERVATION
DIVISION
PHONE 271-4625

WATER DIVISION
PHONE 271-4629

WATERSHED
MANAGEMENT DIVISION
PHONE 271-4633

Southwestern Regional Office
National Park Service
P. O. Box 728
Santa Fe, New Mexico 87501

Attention: Mr. William E. Fields

Gentlemen:

Reference is made to the conversation between Mr. Fields and the undersigned a few days ago relative to a proposed change in the place of use of a portion of the permitted waters under our Permit No. A-1093, issued on June 29, 1937.

After having reviewed the statutes and the Department's rules and regulations, it seems to us that an amendment by supplement to the permit and approval by the State Land Commissioner are the things of basic necessity. Accordingly, it is recommended that you submit the general working drawing (over-all plan) of the proposed works necessary to getting the water across the canyon, together with a general description of the proposed change of place of use, with particular attention to the description of the new place of use and the portion of permitted water to be used in gallons per annum. All of this should be incorporated in a formal request to the Commissioner for approval of the same, and should also be submitted in duplicate so an approved copy could be returned for your records.

For whatever help and assistance it may be to you, you will find enclosed a copy of the compared record of Permit No. A-1093, issued to Application No. A-1765.

If you have any further questions in the matter, please do not hesitate to ask them.

Yours very truly,

F. C. Ryan, Supervisor
Water Division

FCR:KH:gd

encl.-1

07-10-1963: letter to nps from state of arizona regarding commissioner's order granting the requested extension of time

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

LOUIS C. DUNC/
MANAGER
PHONE 271-462

ACCOUNTING DIVISION
PHONE 271-4622

LEASING DIVISION
PHONE 271-4634

LEGAL DIVISION
PHONE 271-4626

MINERAL, OIL & GAS
PRODUCTION DIVISION
PHONE 271-4628

SALES DIVISION
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SERVICE DIVISION
PHONE 271-4637

SOIL CONSERVATION
DIVISION
PHONE 271-4625

WATER DIVISION
PHONE 271-4629

WATERSHED
MANAGEMENT DIVISION
PHONE 271-4633

RECEIVED
NPS SOUTHWEST REGIONAL OFFICE
JUL 16 1963

	Surname	Date
Regional Director		
Cons., Interp & Use		
Administration		
Resource Planning		
Public Affairs		
Program Coord.		
Operations		
Concessions		
Natural History		
Hist & Archaeology		
Ranger Services		

July 10, 1963

Mr. Leslie P. Arnberger,
Assistant Regional Director
Resource Planning
National Park Service, USDI
Southwest Region
P. O. Box 1728
Santa Fe, New Mexico

Re: Application No. A-1765, Permit No. A-1093
Roaring Springs

Dear Mr. Arnberger:

In compliance with your request of July 3, 1963, for a further extension of time within which to complete construction work, and within which to make complete application of water to beneficial use in accordance with the terms of Permit No. A-1093, we enclose herewith Commissioner's Order granting the requested extension of time.

May we suggest that you advise us of your requirements prior to the termination date of the enclosed Order.

Yours very truly,

F. C. Ryan

F. C. Ryan, Supervisor
Water Division

kh
Enclosure

07-10-1963: before the state land commissioner of the state of arizona; commissioner's order granting an additional extension of ti

BEFORE THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

IN THE MATTER of Application No. A-1765, Permit No. A-1093 Roaring Springs UNITED STATES OF AMERICA, Grand Canyon National Park, Applicant

COMMISSIONER'S ORDER

Granting an Additional Extension of Time

THE UNITED STATES OF AMERICA, Grand Canyon National Park, by Leslie Arnberger, Assistant Regional Director, Resource Planning, National Park Service, Southwest Region, Santa Fe, New Mexico, having requested further extension of time within which to complete construction work and within which to make complete application of water to beneficial use under the terms of Permit No. A-1093, granted pursuant to Application No. A-1765, and the reasons submitted for said request being considered good and sufficient cause therefor,

IT IS ORDERED, That the Permittee, the UNITED STATES OF AMERICA, Grand Canyon National Park, be and it is hereby granted an additional extension of time dating from December 31, 1961 to December 31, 1966, within which time to complete construction work; and from December 31, 1966 to December 31, 1967, within which time to make full application of water to beneficial use as provided by the terms of said Permit No. A-1093.

This Order is made nunc pro tunc to serve as if made on December 31, 1961.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 10th day of July, 1963.

Louis C. Duncan
[redacted] Deputy State Land Commissioner

SEAL

07-10-1963: letter to nps from state of arizona regarding commissioner's order granting requested extension of time; application nc

STATE LAND DEPARTMENT

STATE OF ARIZONA
STATE OFFICE BUILDING
PHOENIX 7, ARIZONA

OBED M. LASSEN
STATE LAND COMMISSIONER
PHONE 271-4621

LOUIS C. DUNCAN
MANAGER
PHONE 271-4621

ACCOUNTING DIVISION
PHONE 271-4622

LEASING DIVISION
PHONE 271-4634

LEGAL DIVISION
PHONE 271-4626

MINERAL, OIL & GAS PRODUCTION DIVISION
PHONE 271-4628

SALES DIVISION
PHONE 271-4631

SERVICE DIVISION
PHONE 271-4637

SOIL CONSERVATION DIVISION
PHONE 271-4625

WATER DIVISION
PHONE 271-4629

WATERSHED MANAGEMENT DIVISION
PHONE 271-4633

RECEIVED
NPS SOUTHWEST REGIONAL OFFICE
JUL 16 1963

	Surname	Date
Regional Director		
Cons., Interp & Use		
Administration		
Resource Planning	Lee	7/16
Public Affairs		
Program Coord.		
Operations		
Concessions		
Natural History		
Hist & Archaeology		
Ranger Services		

Lee Jacks 8/5

July 10, 1963

Mr. Leslie P. Arnberger,
Assistant Regional Director
Resource Planning
National Park Service, USDI
Southwest Region
P. O. Box 1728
Santa Fe, New Mexico

Re: Application No. A-1765, Permit No. A-1093
Roaring Springs

Dear Mr. Arnberger:

In compliance with your request of July 3, 1963, for a further extension of time within which to complete construction work, and within which to make complete application of water to beneficial use in accordance with the terms of Permit No. A-1093, we enclose herewith Commissioner's Order granting the requested extension of time.

May we suggest that you advise us of your requirements prior to the termination date of the enclosed Order.

Yours very truly,

F. C. Ryan

F. C. Ryan, Supervisor
Water Division

kh

Enclosure

LS+Grcw

07-10-1963: before the state land commissioner of the state of arizona; commissioner's order granting an additional extension of ti

BEFORE THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

IN THE MATTER
of
Application No. A-1765,
Permit No. A-1093
Roaring Springs
UNITED STATES OF AMERICA,
Grand Canyon National Park,
Applicant

COMMISSIONER'S
ORDER
Granting
an
Additional
Extension of Time

THE UNITED STATES OF AMERICA, Grand Canyon National Park, by Leslie Arnberger, Assistant Regional Director, Resource Planning, National Park Service, Southwest Region, Santa Fe, New Mexico, having requested further extension of time within which to complete construction work and within which to make complete application of water to beneficial use under the terms of Permit No. A-1093, granted pursuant to Application No. A-1765, and the reasons submitted for said request being considered good and sufficient cause therefor,

IT IS ORDERED, That the Permittee, the UNITED STATES OF AMERICA, Grand Canyon National Park, be and it is hereby granted an additional extension of time dating from December 31, 1961 to December 31, 1966, within which time to complete construction work; and from December 31, 1966 to December 31, 1967, within which time to make full application of water to beneficial use as provided by the terms of said Permit No. A-1093.

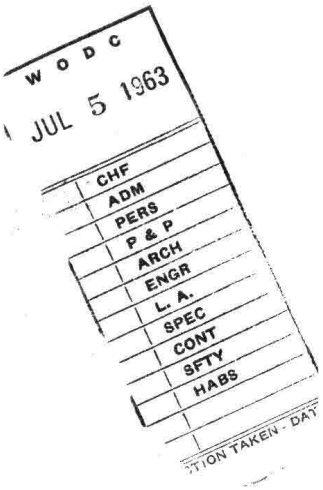
This Order is made nunc pro tunc to serve as if made on December 31, 1961.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 10th day of July, 1963.

Louis C. Duncan
[redacted] Deputy State Land Commissioner

SEAL

07-03-1963: letter to state of arizona from southwest region regarding application made for an extension of time; application no. a-



Southwest Region
Santa Fe, New Mexico

L54

JUL 3 1963

State Land Commissioner
Water Division
State Land Department
State of Arizona
State Office Building
Phoenix 7, Arizona

Dear Sir:

Application is hereby made for an extension of time in which to complete construction under Water Right Application A-1765, Permit No. A-1093, Roaring Springs, Grand Canyon National Park.

You are aware that the visitation and use of the North Rim of Grand Canyon is still increasing. In 1962 we had 187,307 visitors in this area. This compares with 72,000 in 1952. Due to this increase of water demand, and since the water use has not reached the authorized quantity, we think it would be unwise to limit the rights under existing priority to the quantity of water now being used. Consequently, we request as liberal an extension of time as is possible under your state laws in order to expand our water system and make beneficial use of the water.

Sincerely,

(STONE)

Leslie P. Arnberger
Assistant Regional Director
Resource Planning

cc: Director (2)
WODC (2)
Superintendent, Grand Canyon

KN

EXTRA FILE COPY

10-09-1956: certificate granting extension of time; application no. a-1765

C E R T I F I C A T E

Pursuant to the provisions of the act of August 24, 1912, as amended (5 U. S. C., Sec. 488), I HEREBY CERTIFY that the annexed copy of order of September 12, 1956, granting extension of time in which to complete construction and beneficial use of water under Application A-1765 constitutes a full, true and literal exemplification of revised status of water rights under said Application A-1765 for Grand Canyon National Park, contained in the official records of the National Park Service.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the seal of the National Park Service to be affixed, this 8 day of October, A. D. 1956.

Sgnd

Assistant Director
National Park Service

Copy to: Regional Director, Region Three
Superintendent, Grand Canyon NP
Western Office of Design and Construction



10-22-1956: stamp of receipt

09-12-1956: before the state land commissioner of the state of arizona; commissioner's order granting an additional extension of ti

BEFORE THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

IN THE MATTER)
of)
Application No. A-1765)
Permit No. A-1093)
Roaring Springs)
UNITED STATES OF AMERICA)
Grand Canyon National Park)

COMMISSIONER'S

ORDER

Granting
an
Additional
Extension of Time

THE UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, by its Chief of Water Resources Section, A. van V. Dunn, having requested an extension of time within which to complete construction work and within which to make complete application of water to beneficial use under the terms of Permit No. A-1093, granted pursuant to Application No. A-1765, and the reasons submitted for said request being considered good and sufficient cause therefor,

IT IS ORDERED, That the Permittee, the UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, be, and it is hereby granted an extension of time dating from December 31, 1956 to December 31, 1961 within which time to complete construction work; and from December 31, 1961 to December 31, 1962 within which time to make complete application of water to beneficial use as provided by the terms of said Permit No. A-1093.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 12th day of September, A. D., 1956.

Kathryn Mills
Acting Deputy State Land Commissioner

L54-L

September 4, 1956

Mr. J. L. Ernst
State Land Commissioner
Water Division, State Land Department
Phoenix, Arizona

Re: Application A-1765, Permit A-1093,
Roaring Springs Diversion for
North Rim
Application A-1878, Permit A-1192,
Bright Angel Creek Diversion for
Cottonwood Camp
Grand Canyon National Park

Dear Mr. Ernst:

The time for completing construction under Application A-1765 expires on December 31, and the time for making full beneficial use of water under Application A-1878 expires on November 27 of this year. Request is hereby made for a 5-year extension of time in which to complete construction under Application A-1765 and a 5-year extension of time for making full beneficial use of water under Application A-1878.

As explained in recent applications for several other extensions of time, the National Park Service is embarked on an extensive 10-year construction program, designated as MISSION 66, to revamp and enlarge the public facilities to accommodate the anticipate attendance of 1966 based on the unprecidented trend since the end of the last war. Attendance at Grand Canyon National Park, for instance, has increased from 688,673 visitors for the year ending September 30, 1951, to 877,501 visitors for the year ending September 30, 1955. When the applications were filed it was anticipated that annual attendance would become stable during this decade, but it is still increasing at about the same rate as the national population.

Both applications were for fair but liberal quantities of water to cover a condition such as has arisen, and the authorized quantities have not yet been fully used. It would be unwise to limit either right at this time by making proof for final certificates, or to restrict our authority to modify the water systems in the MISSION 66 program.

Very truly yours,

SIGNED,

A. van V. Dunn
Chief, Water Resources Section

Copy to: Regional Director, Region Three
Superintendent, Grand Canyon NP
Western Office of Design and Construction
~~Mr. Dunn~~

AvVDunn:lct

Re: L54-L

September 12, 1956

Mr. A. van V. Dunn, Chief

Water Resources Section

National Park Service

Washington 25, D. C.

COPY

Dear Mr. Dunn:

In compliance with your requests of August 29, 1956 and September 4, 1956, for extensions of time in Applications Nos. A-3095, A-1765 and A-1878, we enclose herewith the requested extensions.

We wish to express our appreciation of the fine cooperation which you have given us.

Very truly yours,

Kay Hammond,
Surface Water Division

Enclosures

09-12-1956: before the state land commissioner of the state of arizona; commissioner's order granting an additional extension of ti

BEFORE THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

IN THE MATTER)
of)
Application No. A-1765)
Permit No. A-1093)
Roaring Springs)
UNITED STATES OF AMERICA)
Grand Canyon National Park)

COMMISSIONER'S

ORDER

Granting
an
Additional
Extension of Time

THE UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, by its Chief of Water Resources Section, A. van V. Dunn, having requested an extension of time within which to complete construction work and within which to make complete application of water to beneficial use under the terms of Permit No. A-1093, granted pursuant to Application No. A-1765, and the reasons submitted for said request being considered good and sufficient cause therefor,

IT IS ORDERED, That the Permittee, the UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, be, and it is hereby granted an extension of time dating from December 31, 1956 to December 31, 1961 within which time to complete construction work; and from December 31, 1961 to December 31, 1962 within which time to make complete application of water to beneficial use as provided by the terms of said Permit No. A-1093.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 12th day of September, A. D., 1956.

Acting Deputy State Land Commissioner

02-23-1955: before the state land commissioner of the state of arizona; commissioner's order granting an additional extension of ti

BEFORE THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

IN THE MATTER of Application No. A-1765 Permit No. A-1093 Roaring Springs UNITED STATES OF AMERICA GRAND CANYON NATIONAL PARK

COMMISSIONER'S ORDER

Granting an Additional Extension of Time

THE UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, by its Chief of Water Resources Section, A. van V. Dunn, having requested an extension of time within which to complete construction work and within which to make complete application of water to beneficial use under the terms of Permit No. A-1093, granted pursuant to Application No. A-1765, and the reasons submitted for said request being considered good and sufficient cause therefor,

IT IS ORDERED, That the Permittee, the UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, be, and it is hereby granted an extension of time dating from December 31, 1954 to December 31, 1956, within which time to complete construction work; and from December 31, 1956 to December 31, 1957, within which time to make complete application of water to beneficial use under the terms of said Permit No. A-1093.

This Order is made nunc pro tunc to serve as if made on December 31, 1954.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 23rd day of February, A. D., 1955.

Roger Ernst
State Land Commissioner

GCNP - Docket 3

7

02-17-1955: letter to state land commissioner, arizona from chief, water resources section regarding request for extension of time;

In reply refer to:
154-L

February 17, 1955

State Land Commissioner
Phoenix, Arizona

Application A-1765, Permit A-1093
Roaring Springs, Grand Canyon National Park

Dear Sir:

In reply to the letter of February 19 from the Secretary, Surface Water Division, request is hereby made for an extension of time in which to complete construction and make full beneficial use of water under the subject application and permit.

The following table gives the number of visitors at Grand Canyon National Park for the travel years, between October 1 and September 30 for 1946 to 1952, inclusive, and for the calendar years 1953 and 1954, the number in 1953 being abnormally high due to a National Scout Convention in California.

1946 - 488,819	1951 - 688,673
1947 - 611,318	1952 - 729,181
1948 - 618,210	1953 - 836,878
1949 - 605,331	1954 - 814,130
1950 - 654,348	

Of these visitors, 23,568 were recorded at the North Rim, served by the subject water supply, in 1953, and 23,018 were recorded in 1954. Although the annual visitor count was somewhat less in 1954 than in 1953, for reason given, the number of visitors at the North Rim was slightly higher in August 1954 than in 1953. The average visitor at the Park stays about 1.47 days during July and August.

Neither the water demand nor the pump capacity now permits proof of use of the authorized quantity of water. The water system is now little more than adequate to supply the demand, and the trend of increasing annual attendance is such that it would be unwise to limit rights by proof of construction of the existing system and past water useage.

Sincerely yours,

A. van V. Dunn
Chief, Water Resources Section

Copy to: Regional Director, Region Three (2) detached
Western Office of Design and Construction detached
Mr. Dunn

AvVDunn:let

02-09-1955: letter to nps from state of arizona regarding application a-1765, permit a-1093; application a-1799, permit a-1132

OFFICE OF
State Land Department
STATE OF ARIZONA
Phoenix, Arizona

ROGER ERNST
STATE LAND COMMISSIONER

February 9th
19 55

Re:

L54 CHIR-L
L54 GRCA-L

COPY

Mr. A. van V. Dunn, Chief
Water Resources Branch
National Park Service
U. S. Department of the Interior
Washington 25, D. C.

Re: Application No. A-1765, Permit No. A-1093, Roaring Springs; (Grand Canyon National Park); and
Application No. A-1799, Permit No. A-1132, Bonita Canyon Springs Nos. 1 & 2; (Southwestern National Monument)--National Park Service, U. S. Department of the Interior

Dear Sir:

In accordance with the Commissioner's Order granting you an extension of time within which to complete construction work in the above captioned cases, said work was to be completed by December 31, 1954 - therefore, we enclose herewith forms of Notice of Completion of Construction Work in these cases for your completion.

If construction work has not been completed in either or both of these projects, kindly advise us of this fact, giving due cause therefor, and request an additional extension of time within which to complete the construction work required.

Will you give this your immediate attention? Thank you.

Very truly yours,

Kay Hammond, Secretary
Surface Water Division

kh

Encls.

12-16-1952: office of the state land commissioner of the state of arizona; order granting extension of time; application a-1765, per

OFFICE OF THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

* *

IN THE MATTER

of

Application No. A-1765
Permit No. A-1093
Roaring Springs
United States of America
Grand Canyon National Park

ORDER

GRANTING EXTENSION OF TIME

THE UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, by its Chief of Water Resources Branch, A. van V. Dunn, having requested an extension of time within which to complete construction and within which to make complete application of water to beneficial use under the terms of Permit No. A-1093, granted pursuant to Application No. A-1765, and the reasons submitted by permittee being considered good and sufficient cause therefor,

IT IS ORDERED, That Permittee, the United States of America, Grand Canyon National Park, be, and it is hereby granted an extension of time from December 31, 1952 to December 31, 1954, within which to complete construction work; and from December 31, 1954 to December 31, 1956, within which to complete application of water to beneficial use under the terms of said Permit No. A-1093.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 16 day of December, A. D., 1952.

James R. Bunger
Deputy State Land Commissioner

C O P Y

In reply refer to:
L54 GRCA-L

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

December 8, 1952

State Land Commissioner
Phoenix, Arizona

Subject: Application A-1765,
Permit A-1093

Dear Sir:

Request is hereby made for an extension of time in which to complete proof under the subject application for the appropriation of water for the municipal area on the North Rim of Grand Canyon National Park.

The water system is in operation, but, as in any municipal community, the population and water use are still increasing and the water use has not reached the authorized quantity. The following table gives the total Park attendance and the portion counted at the North Rim for the past three years, as an indication of the continued growth of the water demand.

Year	Total Park Attendance	North Rim Attendance
1950	654,348	69,059
1951	688,673	71,836
1952	729,181	over 10%

It would be unwise to limit the rights under existing priority to the quantity of water now being used.

Sincerely yours,

(SGD.) A. VAN V. DUNN

A. van V. Dunn
Chief, Water Resources Branch

11-16-1950: letter to state land commissioner, arizona from nps regarding request for extension of time; application a-1765, permi

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

In reply refer to:
L54 GRAN

Grand Canyon N.P.
Head 21

November 16, 1950

Mr. W. W. Lane
State Land Commissioner
Phoenix, Arizona

Dear Mr. Lane:

Request is hereby made for an extension of time in which to complete the construction of the Roaring Springs Water System for the North Rim of Grand Canyon under Water Right Application No. A-1765, Permit No. A-1093.

The National Park Service has been unable to complete the construction necessary to permit the diversion of the full authorized quantity of water because of limitations which have been imposed by Congress and the Bureau of the Budget since 1947 in order to expedite the more urgent postwar national economic and housing recovery, and more recent defense activities. Any attempt to have the concessioner make the improvements has had to be deferred because of the expiration of its old contract, and protracted negotiations in connection with renewal for the next 20-year period.

In spite of failure to complete the water system, there has been no abandonment. The water system was only a little more than adequate for the water demand of 1941, when there were 431,816 visitors at the Park. In 1947, the first relatively normal postwar year, there were 611,318 visitors at the Park, and the number has grown to 645,348 visitors during the travel year ending September 30, 1950.

Sincerely yours,

(SGD.) A. VAN V. DUNN.

A. van V. Dunn
Chief, Water Resources Branch

11-13-1950: letter to state land commissioner from nps regarding request for further extension of time to complete the water syste

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

In reply refer to:
L54 GRAN

November 13, 1950

JAN 1951
RECEIVED
National Park Service
Region Three
Office

Mr. W. W. Lane
State Land Commissioner
Phoenix, Arizona

Dear Mr. Lane:

Request is hereby made for a further extension of time in which to complete the water systems and make beneficial use of the water under Water Right Application A-1880, Permit A-1194, and Application A-1881, Permit A-1195, at Grand Canyon National Park.

Although the waters of Bright Angel Creek have been partially diverted and used, it has been impossible and impractical to complete the authorized systems for the following reasons:

1. Congress and the Bureau of the Budget have limited Federal expenditures for such public recreational developments since 1941, first because of the war, then to make funds available for more urgently needed postwar national readjustments and housing, and now for further defense expansion.

2. The concessioner did not feel justified in making investments during the wartime drop in public use, and could not obtain labor and materials. He has also had no justification for making such improvements since the cessation of hostilities, and because the renewal of the concession contracts have been suspended pending establishment of a new Departmental policy regarding concessions which was signed by the Acting Secretary on October 13, 1950.

In spite of the unavoidable delay, the need for the developments is urgent, to accommodate the public. The increasing public use of the Park may be measured by the following total annual attendance:

1941 - 431,816 visitors
1948 - 618,210 visitors
1950 - 645,348 visitors

Sincerely yours,

(SGD.) A. VAN V. DUNN

A. van V. Dunn
Chief, Water Resources Branch

03-04-1950: letter to nps from state land department of arizona regarding extension of time, application no. r-454, permit no. r-235

ACTION

Superintendent	
Asst. Sup't.	
Chief Clerk	
Chief Ranger	
Maintenance	
Sanitation	
Admin. Asst.	
Naturalist	

Initial Reply
Comment
Your Letter

File copy

RECEIVED
MAR 6
GRAND CANYON NATIONAL PARK

March 4, 1950

United States Department of Interior
National Park Service
Washington 25, D. C.

Re: Application No. R-454, Permit No. R-235,
Toroweep Valley Wash, stored in Toroweep Lake,
U. S. Department of Interior,
Grand Canyon National Park

Gentlemen:

Our records show that the former State Water Commissioner granted an extension of time in the above captioned permit until August 8, 1944, within which to make complete application of water to beneficial use.

At the time, Mr. Perry E. Brown, Acting Superintendent of the Park, felt that repairs on the reservoir could be completed within a year following the close of World War II.

In case the Park Service is ready to take Certificate of Water Right, we enclose form for filing Proof of Appropriation of Water partially filled out from our record of the permit in this case, which should be completed as indicated and returned to us following which the State Land Commissioner will issue a certificate.

The recording fee for certificate was paid in advance in this case on September 20, 1935, and we have carried this fee in our suspense fund all these years. Should, for good cause, the Park Service is not able to apply for certificate at this time, and desires a further extension of time by Order of the Commissioner, please so advise us.

Provided you are still in need of additional extension of time, we would appreciate your signing and executing the enclosed claim against the State of Arizona in the amount of $2.00 and return to us so that we may put it through the State Auditor's office for reimbursement to the Park Service of an unearned fee.

It has been our policy for some years not to accept fees until we are ready to earn them, and this old permit is one among four other permits representing a $2.00 advanced and unearned fee which we would like to stop carrying on our books from year to year. Then when the Park Service is ready to submit proof toward the issuance of a certificate we will call for the fee.

Trusting we may hear from you at an early date regarding this matter,

Sincerely yours,

Tessie I. Duncan
Secretary, Water Division
State Land Department of Arizona

d
Enclosures

12-07-1950: letter to nps from state of arizona regarding application no. a-1765, permit no. a-1093

C O P Y

W. W. Lane
State Land Commissioner

OFFICE OF
STATE LAND DEPARTMENT
STATE OF ARIZONA
PHOENIX, ARIZONA

Water Division

December 7, 1950

Re: L54 GRAN

Application No. A-1765
Permit No. A-1093
Roaring Springs
United States of America
GRAND CANYON NATIONAL PARK

Mr. A. van V. Dunn, Chief

Water Resources Branch

National Park Service

United States Department of the Interior

Washington 25, D. C.

Dear Mr. Dunn:

This will acknowledge receipt of your letter of November 16th, relative to an extension of time to complete construction of the Roaring Springs Water System and make full beneficial use of water under Application No. A-1765, Permit No. A-1093.

We enclose herewith Commissioner's Order granting extension of time from December 31, 1950 to December 31, 1952, within which to complete construction work; and from December 31, 1952 to December 31, 1954, within which to complete application of water to beneficial use under the terms of said Permit No. A-1093.

Very truly yours,

/s/ C. H. W. Smith

C. H. W. Smith, Engineer
Water Division
State Land Department

Enclosure:

CHWS:k

OFFICE OF THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

****

IN THE MATTER OF

Application No. A-1765
Permit No. A-1093
Roaring Springs
United States of America
Grand Canyon National Park

ORDER

GRANTING EXTENSION OF TIME

THE UNITED STATES OF AMERICA, GRAND CANYON NATIONAL PARK, by its Chief of Water Resources Branch, A. van V. Dunn, having requested an extension of time within which to complete construction work under the terms of Permit No. A-1093, granted pursuant to Application No. A-1765, and the reasons submitted by permittee being considered good and sufficient cause therefor,

IT IS ORDERED, That Permittee, United States of America, Grand Canyon National Park, be, and it is hereby granted an extension of time from December 31, 1950 to December 31, 1952, within which to complete construction work; and from December 31, 1952 to December 31, 1954, within which to complete application of water to beneficial use under the terms of said Permit No. A-1093.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 7th day of December, A. D., 1950.

James R. Bumgardner
Deputy State Land Commissioner

11-16-1950: letter to state land commissioner from nps regarding request for extension of time to complete the construction of the

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

In reply refer to:
L54 GRAN

November 16, 1950

Mr. W. W. Lane
State Land Commissioner
Phoenix, Arizona

Dear Mr. Lane:

Request is hereby made for an extension of time in which to complete the construction of the Roaring Springs Water System for the North Rim of Grand Canyon under Water Right Application No. A-1765, Permit No. A-1093.

The National Park Service has been unable to complete the construction necessary to permit the diversion of the full authorized quantity of water because of limitations which have been imposed by Congress and the Bureau of the Budget since 1947 in order to expedite the more urgent postwar national economic and housing recovery, and more recent defense activities. Any attempt to have the concessioner make the improvements has had to be deferred because of the expiration of its old contract, and protracted negotiations in connection with renewal for the next 20-year period.

In spite of failure to complete the water system, there has been no abandonment. The water system was only a little more than adequate for the water demand of 1941, when there were 431,816 visitors at the Park. In 1947, the first relatively normal postwar year, there were 611,318 visitors at the Park, and the number has grown to 645,348 visitors during the travel year ending September 30, 1950.

Sincerely yours,

(SGD.) A. VAN V. DUNN

A. van V. Dunn
Chief, Water Resources Branch

OFFICE OF THE STATE LAND COMMISSIONER OF THE STATE OF ARIZONA

- - - -

In the Matter of Application No. A-1765 Permit No. A-1093 Roaring Springs United State of America Grand Canyon National Park

ORDER

GRANTING EXTENSION OF TIME

The United States of America, Grand Canyon National Park, by its Chief of Water Resources Branch, A. van V. Dunn, having requested an extension of time within which to complete construction work under the terms of Permit No. A-1093, granted pursuant to Application No. A-1765, and the reasons submitted by permittee being considered good and sufficient cause therefor,

IT IS ORDERED, That Permittee, United States of America, Grand Canyon National Park, be, and it is hereby granted an extension of time from December 31, 1947 to December 31, 1950, within which to complete construction work; and from December 31, 1948, to December 31, 1952, within which to complete application of water to beneficial use under the terms of said Permit No. A-1093,

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 12th day of January, A. D., 1948.

O. C. Williams

State Land Commissioner.

01-12-1948: letter to state land commissioner from state of arizona regarding extensions of time in application a-1765 and a-1799

C O P Y

O. C. Williams
State Land Commissioner

Office of
State Land Department
State of Arizona
Phoenix, Arizona
January 12, 1948

WATER DIVISION

Enclosed you will find extensions of time in Applications A-1765 and A-1799, as requested in your letters of January 7th and January 8th, 1948.

WATER DIVISION
State Land Department of Arizona.

Grand Canyon
x Chiricahua

01-12-1948: letter to state land commissioner from state of arizona regarding extensions of time in application a-1765 and a-1799,



01-08-1948: letter to state land commissioner from nps regarding request for an extension of time to complete construction and m

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
~~Washington 25, D. C.~~
CHICAGO, ILLINOIS

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

January 8, 1948.

Mr. O. C. Williams,
State Land Commissioner,
Phoenix, Arizona.

My dear Mr. Williams:

This is a request for an extension of time in which to complete construction and make full beneficial use of the waters of the Roaring Springs at the North Rim of Grand Canyon National Park under Water Right Application No. A-1765, Permit No. A-1093.

Approximately 92,000 gallons per day were used during July and August 1947, or 57.6% of the quantity authorized under the permit. The use was made by 165 employees of the National Park Service and the Utah Parks Company which operates the hotel and other public facilities, and by 16,963 Park visitors in July and 17,313 visitors in August. The water use required full pump operation for 16 hours each day with the present installation. The delivered water averaged between 115 and 111 gallons per capita per day for July and August, and can be fully justified by analysis, on the basis of recognized rates of per capita consumption in hotels, residences, campgrounds, and other facilities of the types available.

The hotels and other public facilities were filled to capacity during these months, and the attendance constituted an increase of 16% over that in 1946. In fact, the 1947 attendance in the Park as a whole (North and South Rims) was 25% greater than in 1946. It would be undesirable, therefore, to restrict the water right to quantities of water used in the past. It is also doubtful if past use has been as great as it might have been if more accommodations had been available for visitors.

There are plans to increase the accommodations, in part by the United States, and in part by the concessioner. However, little relief can be expected by the United States until the Bureau of the Budget decides that such projects will not conflict with the more urgent national demands for a stable economy and adequate housing. The concessioner is deferring most of his proposed enlargement until a new contract is consummated. This contract is now under consideration



by the Secretary of the Interior, and involves several radical changes in the relative responsibilities of the concessioner and the United States.

While additional pump units, and perhaps more regulatory storage, are needed to permit use of 150,000 gallons per day as authorized by the permit, the present pump capacity of 96 gallons per minute, and operation for 16 hours per day, provides all water that can be used beneficially with present accommodations for the public. The 86,400 gallons per day, which are now being pumped, can be increased by somewhat longer hours of pumping to serve any small increases in public accommodations which may be provided in the next year or two under the present recovery program. It would be inadvisable to increase the capacity of the diversion works until these related facilities for water use are increased proportionately.

Therefore, the requested extension of time should recognize that 5 years will probably be needed in which to provide for full use of the quantity of water covered by Permit A-1093.

Sincerely yours,

(SGD.) A. VAN V. DUNN
A. van V. Dunn,
Chief, Water Resources Branch.

AvVD:sh.

cc: Regional Director, Region Three (2). (detached.)

08-17-1945: letter to nps from state of arizona regarding commissioner's order granting extension of time for application no. a-176

O. C. WILLIAMS
STATE LAND COMMISSIONER

OFFICE OF
State Land Department
STATE OF ARIZONA
Phoenix, Arizona

NATIONAL PARK SERVICE
AUG 20 1945
CHIEF CLERK'S OFFICE

Name	Date
Burney	8-17
Smith	

August 17, 1945

Mr. Hillory A. Tolson
Act. Director, National Parks Service
U. S. Dept. of the Interior
Chicago, Illinois

Re: App. No. A-1765
Per. No. A-1093
Roaring Springs

Dear Sir:

In compliance with your request of August 8th, we enclose Commissioner's Order granting extension of time to December 31, 1947, for the completion of construction work; and to December 31, 1948, for applying water to beneficial use, in the above designated case.

Very truly yours,

C.H.W.Smith, Engineer
Water Division

B

C O P Y

BEFORE THE STATE LAND COMMISSIONER OF ARIZONA
(Water Division)

In the Matter
of
Application No. A-1765
Permit No. A-1093
Roaring Springs
United States of America
Grand Canyon National Park

O R D E R

GRANTING EXTENSION OF TIME

The United States of America, Grand Canyon National Park, by its Acting Director Hillory A. Tolson, having requested an extension of time within which to complete construction work under the terms of Permit No. A-1093 granted pursuant to Application No. A-1765, and the reasons submitted by permittee being considered good and sufficient cause therefor,

IT IS ORDERED, That Permittee, United States of America, Grand Canyon National Park, be, and it is hereby granted an extension of time from December 31, 1945, to December 31, 1947, within which to complete construction work; and from December 31, 1945 to December 31, 1948, within which to make complete application of water to beneficial use under the terms of said Permit No. A-1093.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Land Commissioner this 17th day of August, A. D., 1945.

(SEAL)

(Sgd) O. C. Williams
State Land Commissioner

08-08-1945: letter to state land department, arizona from nps regarding notice of completion of construction under water right ame

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Letters
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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO, ILLINOIS
54

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

August 8, 1945.

State Land Department,
Water Division,
Phoenix, Arizona.

Dear Sirs:

We enclose a Notice of Completion of Construction under water right Amended Application No. A-1766, Permit No. A-1094, for Grand Canyon National Park, which is due on August 22. Beneficial use of the water has been retarded by the reduction in recreational travel during the war, and we are deferring the report thereon until the end of another year as now authorized.

We also hold Application A-1765, Permit A-1093, for the diversion of the waters of Roaring Springs in the same drainage and Park, under the terms of which construction must be completed by December 31 of this year. This water system has been constructed and operated by the Utah Parks Company, a subsidiary of the Union Pacific Railroad, and this Service. As previously reported, the system has been completed to the stage where it has served all past needs, and such needs have been low during the war because of the aforesaid reduction in recreational travel. For the public good, both the United States and the Railroad have been diverting all available labor and materials to the war effort and have been unable to complete the water system as a result.

It is requested, therefore, that a further extension of time be granted in which to complete construction under Application A-1765, Permit A-1093, until two years after the war.

Very truly yours,

(SGD) HILLORY A. TOLSON

Hillory A. Tolson,
Acting Director.

AvVD:sh.
Enclosure 278.

cc: Regional Director, Region Three (2). (detached).
Mr. Dunn.



11-16-1942: letter to state water commissioner, arizona from unknown regarding reference to the extensions of time for water right

Grand Canyon N.P.
X Grand Canyon N.M.
X Chiricahua N.M.

601 Sheldon Building

November 16, 1942.

Mr. Jesse C. Wanslee,
State Water Commissioner,
State House,
Phoenix, Arizona.

Dear Mr. Wanslee:

Reference is made to your letter of November 10, 1942, with regard to extensions of time for water right Applications A-1878, A-1765, A-1799, and R-454.

The order granting extension of time in the matter of Application No. A-1878, Permit A-1192, offers one immediate remedy. It does not, however, adapt procedure to the war conditions as we had hoped. We realize that your authority is limited, but request that you give the matter further consideration at your convenience.

The war has introduced three problems as illustrated in our letter of September 11, 1942, as follows:

1. Since late 1940, or early 1941, the United States has impounded most of its domestic construction funds to permit greater defense and war effort with a minimum of special taxation. Hence, only imperative additional National Park Service water systems will be attempted until the close of the war at a very indefinite date.

2. Water use has dropped, both because of depleted personnel in each park and monument and because public attendance dropped from 30% to 50% of the 1941 figure during 1942, and will doubtless be much less in 1943 because of traffic problems. Hence, if full beneficial use of water was not made in 1941 it will not be made until a year or two after the war.

3. We still have some water systems in your State, as in all others, which are not covered by water rights. We also have plans to build others as soon as labor and materials can be obtained after the war, as a part of the national post war stabilization program, and these should be covered by application and permit before construction is started. As long as our personnel is not transferred to other activities we will continue to prepare the applications and file them to profit by such priority as will result. However, a filing now, except for existing systems, does not imply beginning of construction until 1944, 1945, or even 1946. We assume that priority will be as of the date you receive the application, but must you defer the granting of a permit until within a year of construction, or can you recognize diligence within a year after the labor returns from the war fronts?

In the latter case you will recall that only for Grand Canyon have we claimed municipal status which grants extended time in which to start construction under Section 3288 of your code. Most monuments have such small communities that such status would be debatable, but from the previous discussion you will note that the factors controlling development and use are the same. This might offer you some interpretation which might reduce the number of reports and extensions of time to the benefit of our mutually depleted offices.

Yours very truly,

A. van W. Dunn,
Hydraulic Engineer.

AvVD:SH

cc: Director.
Region Three.
Supt., Grand Canyon.
Supt. S.W.Mons.

C O P Y

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco, Calif.

September 11, 1942.

Mr. Jesse C. Wanslee,
State Water Commissioner,
State House,
Phoenix, Arizona.

Dear Mr. Wanslee:

We have the following incomplete water rights in your State in the name of the United States:

Application A-1878, Permit A-1192,
Bright Angel Creek Diversion for Cottonwood Camp at Grand Canyon, requiring application of the water to beneficial use by Nov. 27, 1942.

Application A-1880, Permit A-1194,
Bright Angel Creek Diversion for Supplemental Municipal use at the Town of Grand Canyon, Arizona, requiring completion of construction by Nov. 27, 1942.

Application A-1881, Permit A-1195,
Bright Angel Creek Diversion for hydroelectric purposes at Phantom Ranch, Grand Canyon, requiring completion of construction by Nov. 27, 1942.

Application A-1799, Permit A-1132,
Bonita Canyon Springs Diversion for Chiricahua National Monument, requiring some further construction and proof of use by Sept. 30, 1943.

Application R-454, Permit R-235,
Toroweep Wash Reservoir for Grand Canyon National Monument, requiring proof of beneficial use by Aug. 8, 1944.

Application A-1765, Permit A-1093,
Roaring Springs Diversion for the Town of Kaibab Post Office, Arizona, in Grand Canyon National Park, requiring complete construction by Dec. 31,1945.

We wonder if it is possible to obtain a blanket extension of time for all these claims until two years after the close of the war. For over a year now, almost all Park Service construction funds have been impounded as a war measure. Where funds have been available we have found our priority too low to obtain necessary materials. CCC activity was all terminated on July 1 of this year and from about the time of the first draft the personnel in these camps has been so far below normal that little more than emergency maintenance has been possible with them.

Full beneficial use is also impossible. The abandonment of each CCC camp is a decrease of about 10,000 gpd in water demand. Much of the regular Park Service staff has joined the armed forces and moved their families out of the Park Service areas and all temporary crews are far below normal strength. Public attendance has also decreased to only about 50% of that for last year. Some consideration is being given to re-opening part of the CCC camps for use as Civilian Public Service camps, but the effect on water use is still uncertain.

We have tentative plans for unusually heavy construction projects at the close of the war to help stabilize the economic situation. Thus it is anticipated that the construction program and water use will soon reach their normal position on the trend of development, but due to possible delays in releasing or appropriating the first funds, the time that may be required to restore manufacturing facilities and reassemble labor crews, we feel that two years should be provided in which to report completion of projects.

Yours very truly,

A. van V. Dunn,
Hydraulic Engineer.

AvVD:SH

cc: Director.
Region Three.
Supt., Grand Canyon Nat. Park.
Supt., S.W.Monuments.

04-23-1942: letter to superintendent from state house regarding an enclosed copy of extension of time for application no. a-1765,

STATE WATER COMMISSIONER
STATE HOUSE
PHOENIX, ARIZONA.

April 23, 1942.

Mr. H. C. Bryant
Superintendent
Grand Canyon National Park
Grand Canyon, Arizona.

Re: App. No. A-1765
Per. No. A-1093
Roaring Springs.

Dear Sir:

We are enclosing herewith copy of "Order Granting Extension of Time" in the above designated case.

We have extended the time from June 28, 1942 to December 31, 1945 within which to complete construction work.

Sincerely yours,

(S) JESSEE C. WANSLEE,
State Water Commissioner.

(Original Copy returned to Supt. 4/30/42.)

BEFORE THE STATE WATER COMMISSIONER

OF ARIZONA

In the Matter	)	
	(	
-of-	)	O_R_D_E_R
	(	
Application No. A-1765	)	GRANTING EXTENSION OF TIME
Permit No. A-1093	(	
Roaring Springs	)	
United States of America	(	
Grand Canyon National Park	)	

The United States of America, Grand Canyon National Park, by its Superintendent, H. C. Bryant, having requested an extension of time within which to complete construction work under the terms of Permit No. A-1093 granted pursuant to Application No. A-1765, and the reasons submitted by permittee being considered good and sufficient cause therefor,

IT IS ORDERED, that Permittee, United States of America, Grand Canyon National Park, be, and it is hereby granted an extension of time from June 28, 1942 to December 31, 1945 within which to complete construction work under the terms of Permit No. A-1093 granted pursuant to Application No. A-1765.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the Seal of the State Water Commissioner this 23d day of April, A. D., 1942.

(SEAL)

JESSE C WANSLEE (SIGNED)

STATE WATER COMMISSIONER

Grand Canyon Ideal 21

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZ.

April 22, 1942.

Mr. Jesse C. Wanslee,
State Water Commissioner,
State House,
Phoenix, Arizona.

Re: Water Right Application No.
A-1765, Permit No. A-1093.

Dear Mr. Wanslee:

Application is hereby made for an extension of time in which to complete construction under the above application and permit. Due to the present emergency, it is requested that this extension be for five years, or for two years after the close of the war.

This system is dependent on power generated by diversions from Bright Angel Creek under Application No. A-1764, Permit No. A-1092, Certificate No. 723. The power demand for lights and other uses at the North Rim (town of Kaibab Post Office) has been in excess of estimates and there is now some question as to whether it is advisable to provide full municipal diversions until provision is also made for greater power development. Due to the great demand for water from Bright Angel Creek for the North Rim, Phantom Ranch, and as proposed for an auxiliary supply for the South Rim (town of Grand Canyon, Arizona), an efficient development for each unit is essential and all developments must be kept at a minimum consistent with public travel trends in each area. Furthermore, the developments involve cooperation of two Park Operators through Park Service supervision, namely the Utah Parks Company on the North Rim and Fred Harvey at Phantom Ranch and on the South Rim.

In order not to invest in over-development until travel trends are fully understood, and in order to provide some additional water supply at the North Rim with a minimum increase in power demand, the supplemental diversion was made from Cliff Dwelling Spring in 1940 under Application No. A-2254, Permit No. A-1514. Also, as provided in that later application, we have provided 350,000 gallons or regulatory storage instead of the 280,000 gallons anticipated in Application No. A-1765, Permit No. A-1093.

Fred Harvey and the Utah Parks Company are subsidiaries of the Santa Fe and Union Pacific Railroads respectively. They, like the National Park Service and other federal agencies, are diverting all possible funds to the war effort for the duration. We feel that these features should be considered in granting a liberal extension of time.

Yours very truly,

H. C. Bryant,
Superintendent.

cc: Director
Regional Director, Region Three
Regional Director, Region Four

08-14-1937: letter to superintendent from state water commissioner regarding receipt of notices for app. a-1765, per. a-1093

OFFICE OF
ATE WATER COMMISSIONER
ROOM 407 ARIZONA STATE BUILDING
PHOENIX, ARIZONA
August 14,1937.



Mr. M. R. Tillotson, Superintendent,
Grand Canyon National Park,
Grand Canyon, Arizona.

Re: A-1765, Per. A-1093,
Roaring Springs.

Dear Mr. Tillotson:

In the above designated case we are in receipt of your notices of beginning of construction, notices of completion of construction and complete application of water to beneficial use, which state that the works have been constructed and the water used "in accordance with the tenor of such permit and the limitations endorsed thereon" and give the dates for beginning and completion of the project as the year 1927 and 1928.

Your attention is directed to the fact that this application which was filed on April 30, 1937, proposed to begin additional construction within one year, to complete construction within four years by enlarging pump units and to completely apply the water to the proposed use within five years. The application also states that the present 400 persons per day should grow to 1500 within five years and the present 20 miles be increased to 100. Permit was granted accordingly.

We, therefore, do not consider the filing of any of these notices, except the notice of beginning of construction, desirable at this time. The notices are all returned herewith together with a new set. You may prepare and file notice of beginning construction and when construction is finally completed and the water completely applied to use the other two should be filed.

Very truly yours,

Edwin T. Stewart

EDWIN T. STEWART
STATE WATER COMMISSIONER.

ETS:C

Filed during personal interview with Mrs. Harrison on 9/7/37. Further formal notice of Beginning of Construction should be filed when additional work is started.

08-04-1937: letter to state water commissioner from superintendent regarding requested signed forms

August 4, 1937.

Mr. Edwin T. Stewart,
State Water Commissioner,
Room 407, Arizona State Building,
Phoenix, Arizona.

Dear Mr. Stewart:

As requested by your letter of July 8, I am enclosing herewith the following signed forms: Notice of Beginning of Construction, Notice of Completion of Construction, Notice of Complete Application of Water to a Beneficial Use, in connection with Application No. A-1765, Permit No. A-1093 covering the appropriation of one hundred and fifty thousand gallons per day of the waters of Roaring Springs for municipal use.

Very Sincerely Yours,

M. R. Tillotson,
Superintendent.

07-14-1937: letter to state water commissioner from superintendent regarding communications and accompanying enclosures

REC'D JUL 16 1937

July 14, 1937.

State Water Commissioner,
Room 407, Arizona State Building,
Phoenix, Arizona.

Dear Mr. Stewart:

Receipt is acknowledged of the following communications and accompanying enclosures from your office:

1. Your letter of July 8 re Application No. A-1765, Permit No. A-1093, for municipal use of 150,000 gallons per day of the waters of Roaring Springs; Receipt No. 3344 covering $5.00 recording fee; forms on which to file notice as to the beginning of construction work, etc. etc.

2. Your letter of July 8 re Application No. A-1764, Permit No. A-1092 covering the use of twelve second feet from Bright Angel Creek for power purposes; Receipt No. 3343 for the $45.00 recording fee; forms on which to file notice of complete application of water to a beneficial use.

3. Your letter of July 9 re Application No. A-1766, Permit No. A-1094 covering the appropriation of water from Bright Angel Creek for domestic use, irrigation and stock watering at Phantom Ranch; Receipt No. 3345 in the amount of $12.16 for recording fee; forms on which to file notice of complete application of water to a beneficial use.

4. Your letter of July 8 re Application No. A-1735, Permit No. A-1091 covering the appropriation of 300,000 gallons per day from certain springs and Garden Creek at Indian Gardens in connection with the South Rim municipal water supply; Receipt No. 3342 for your necessary $5.00 recording fee; form on which to file affidavit making Proof of Appropriation of Water. It is noted that an additional $3.50 fee will be required at the time of filing this proof.

Before filing the additional notices and proofs in connection with the four permits above specified, it will be necessary for me to secure further information on certain points. This I am arranging to do, and I will file the additional papers required at the earliest possible date, probably by a personal call at your office.

I appreciate greatly your personal attention and helpfulness in connection with these filings.

Very Sincerely Yours,

M. R. Tillotson,
Superintendent.

MRT/he.
CC: Mr. Taylor.

07-08-1937: letter to superintendent, arizona from state water commissioner regarding app. no. a-1765, per. no. a-1093

EDWIN T. STEWART
COMMISSIONER

OFFICE OF
STATE WATER COMMISSIONER
ROOM 407 ARIZONA STATE BUILDING
PHOENIX, ARIZONA

July
8
1937



Mr. M. R. Tillotson,
Superintendent,
Grand Canyon National Park,
Grand Canyon, Arizona.

Re: App. No. A-1765,
Per. No. A-1093,
Roaring Springs.

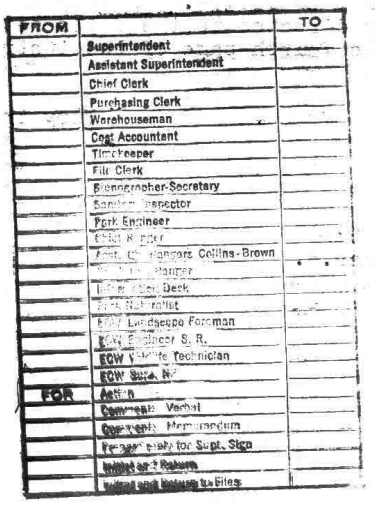
Dear Mr. Tillotson:

Enclosed herewith is the above designated permit, granted onthe 29th day of June, 1937, to The United States of America, by M. R. Tillotson, Superintendent of Grand Canyon National Park, together with our Receipt No. 3344 for $5.00 recording fee.

The enclosed set of forms for notices are for your use in filing notices of the beginning of construction work, completion of construction work and complete application of water to beneficial use, in this office. In this connection your attention is directed to the dates set forth in the permit on the fourth page of the instrument.

Very truly yours,
Edwin T. Stewart
EDWIN T. STEWART
STATE WATER COMMISSIONER.

ETS:L
Encs.4.


FROM
TO
Superintendent
Assistant Superintendent
Chief Clerk
Purchasing Clerk
Warehouseman
Cost Accountant
Timekeeper
File Clerk
Stenographer-Secretary
Sanitary Inspector
Park Engineer
Asst. Engineer Collins-Brown
Landscape Foreman
Engineer S. R.
EGW Service Technician
EGW Serv. N.
FOR
Action
Comment: Verbal
Comment: Memorandum
Prepare reply for Supt. Sign
Initial and Return
Initial and Return to Files

Application No. A-1765 Permit No. A-1093

P E R M I T

STATE OF ARIZONA,)
) ss.
COUNTY OF MARICOPA,)

This is to certify that I have examined the foregoing application and do hereby approve the same, and grant to the applicant a permit to appropriate the water described therein subject to the following limitations and conditions:

The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and shall not exceed One Hundred Fifty Thousand (150,000) gallons per day.

The priority of date under this permit is April 30, 1937.

Actual construction work shall begin on or before June 28, 1938, and shall be prosecuted with reasonable diligence and be completed on or before June 28, 1942.

Complete application of the water to the proposed use shall be made on or before June 28, 1943.

WITNESS my hand and seal of office this 29th day of June, 1937.

(SEAL) (Signed), Edwin T. Stewart,
State Water Commissioner.

APPLICATION No. A-1765
PERMIT NO. A-1093

P E R M I T

To Appropriate Public Waters of the State of Arizona.

DISTRICT NO._____

This instrument was first received in the office of the State Water Commissioner at Phoenix, Arizona, on the 30th day of April, 1937, at 9:00 o'clock A.M.

Returned to applicant for correction

Corrected application refiled

Approved June 29, 1937.

Recorded in Book No. 10 of Applications for Permit at page 1765

(Signed) Edwin T. Stewart
State Water Commissioner

(SEAL)

C O P Y

Deed 21

Permit No. A-1093 Application No. A-1765

(NOTE: This printed form is a later revision and consequently slightly different from the printed form on which original application was made and permit issued. No extra copies of the earlier forms are available. Hence, this is not an exact duplicate of the original on file in my office, but it gives all the essential data.)

APPLICATION FOR A PERMIT M. R. Tillotso
Superintendent.

To Appropriate Public Waters of the State of Arizona

Filed April 30, 1937 at 9:00 A. M.
(Applicant must not fill in the above blanks.)

I, The United States of America, by M. R. Tillotson, Superintendent of Grand Canyon National Park,
(Applicant's name as inserted here must agree with signature.)

of Grand Canyon, County of Coconino,
(Postoffice.)

State of Arizona, do hereby make application for a permit to appropriate the following described unappropriated waters of the State of Arizona.

1. The source of the proposed appropriation is Roaring Springs, a tributary of
(Name of stream or name of reservoir and stream if water is diverted from reservoir.)
Roaring Springs Creek which is a, tributary of Bright Angel Creek

2. The amount of water which the applicant intends to apply to beneficial use is:

For Municipal use, 150,000
(Municipal or Domestic.) (~~Gallons per annum~~, or gallons per day.)

For use,
(Irrigation.) (Acre feet per acre per annum.)

For use,
(Mining or Stock Watering.) (Cubic feet per second, or gallons per annum.)

For use, cubic feet per second.
(Power.)

For use.

3. The point of diversion is located in the stream caused by Roaring Springs, at a
(State bearing and distance or coordinate distances to section or quarter section corner.)
point from which the south quarter corner of Section 18, T 34 N, R 5 E, G & S R B & M bears N25°00'W 57221 feet, and the junction of Roaring Springs Creek and Bright Angel Creek bears S45°50'E 664 feet.

being within the unsurveyed land, SW¼ of SE¼, of Sec. 2, T. 32 North,
(State 40-acre subdivision of U. S. Government survey or projection thereof.) (No. N. or S.)
R. 5 East, G. & S. R. B. & M., in the County of Coconino, as projected from said
(No. E. or W.) south quarter corner of Section 18, T 34 N, R 5 E.
(Note—Complete paragraph below for all proposed uses of water, except irrigation.)

4. The main pipe line is now 2.17 miles in length, terminating in the SE¼ of NW¼
(40 or 10 acre subdivision.)
(40 or 10 acre subdivision.)
of Sec. 24, T. 33 North, R. 5 East, G. & S. R. B. & M., the proposed location being shown as projected
throughout on the accompanying map.

DESCRIPTION OF WORKS

5. Diversion Works: (a) Diversion is by gravity from a small masonry collecting reservoir to the pump system.
height (stream bed to overflow), long on top, and constructed of
(Concrete, earth, brush, etc.)

(b) Description of headgate The headgates consist of two 8½" pipes, with valve
(Timber, concrete, etc., number and size of openings.)
controls to serve the pumps.

(c) If water is to be pumped give general description There are two Lodgeman triplex pumps, each
(Size and type of pump.)
of 20 g.p.m. capacity, direct connected to two 50 HP induction motors, which pump against
(Size and type of engine or motor to be used, total head water is to be lifted, etc.)
a static head of 3870 feet. These pumps will be replaced by larger ones when necessary.

Do not use this form in making application for a permit to construct a reservoir and store water. A special form for this purpose may be obtained from the State Water Commissioner.

6. Conduit System. (a) Canal, ditch, flume: Width on top (at water line)..... feet; width at bottom..... feet; depth of water..... feet; length..... feet; grade..... feet per 1,000 feet; materials of construction.....

(Cross out two not used.)

(b) Pipe line: Diameter... 5½ ...inches; length... 11,462 ...feet; grade variable feet per 1,000 feet; total lift ~~fall~~ from intake to outlet... 5,870 ...feet; kind... seamless special steel.

(Riveted steel, cement, wood-stave, etc.)

NOTE—If different sizes or kinds of conduit are to be used, attach extra sheets with complete description, also show location of each clearly on map.

7. Distributing Works. ~~No.~~ ... Tanks ... Material... 1 Redwood, existing : : : 24 ft. dia.
1 Redwood, existing : : : 30 ft. dia.
1 Concrete, proposed : : : not designed

(No.) (Tanks or Troughs.) (State dimensions and capacity of each)

50,000 gallons
80,000 gallons from which various sized pipes serve the North Rim area at
150,000 gallons Bright Angel Point.

8. Cost and Construction Schedule. The ~~estimated~~ cost of the proposed project is $ 200,000. ($153,452 now expended.)

It is proposed to begin ~~construction~~ additional within... one year ...after the approval of this

(Not over 1 year.)

application, to complete construction within... 4 years ...thereafter and to completely apply the water to the proposed use... 5 years ...after the ~~beginning of construction~~ present date.

(Not more than 5 years.) (State time in months or years.)

by enlarging pump units

DESCRIPTION OF PROPOSED USE

9. Domestic Use. ~~Domestic~~ Municipal use is proposed as follows: All uses of a village, including fire protection, drinking water, lavatories and limited industrial activities and stock watering and incidental irrigation. The population has grown from 0 to 400 people per da since 1919, and should reach 1500 within 5 years. The present 20 mules will be increase to 100, with this growth.

(Describe nature of use which may include the irrigation of gardens not exceeding one-half acre, stating number of persons and number of domestic stock to be served, etc.)

10. Municipal Use. To supply the city of.....

having a present population of....., and an estimated population of..... in 19.....

11. Irrigation Use. (a) The land to be irrigated has an area of..... acres; is located in..... County, Arizona, and is particularly described by legal subdivisions as follows:

(Describe the subdivisions of the township or section the entire area of which it is proposed to irrigate, by the largest possible legal subdivisions, in the table below, inserting the area in the acreage column. In cases of irregular shaped parcels use a separate line to describe each 40 acre subdivision in which they occur and insert only the area of such subdivision to be irrigated in the acreage column.)

Tp.	Range	Sec.	SUBDIVISIONS	Number Acres To Be Irrigated

(If more space is required, attach separate sheet.)

(b) What is the character of the soil?.....

(c) What quantity of water is necessary to raise proposed crops?..... (Acre feet per acre per annum.)

(d) Land to be irrigated is owned by..... (Name of owner.) (If applicant is lessee, etc., so state.)

(e) The irrigation season will begin about..... and end about..... (Beginning date each season.) (Closing date each season.)

(f) Has the land to be irrigated any water right or source of water supply other than that herein applied for?..... Describe the nature and amount of any additional supply.....

.....

12. Stock Watering Use. (a) What kind of stock is it proposed to serve?.....

(b) What is the average number of stock it is proposed to serve?.....

(c) What is the maximum number of stock it is proposed to serve?.....

(d) The use of water will begin about....., and end about..... (Beginning date each season.) (Closing date each season.)

13. Power Use. (a) The maximum amount of water to be used through the penstock is..... cubic feet per second.

(b) Total amount of power to be developed.....theoretical horsepower.
(Second feet × fall ÷ 8.8.)

(c) Total fall to be utilized.....feet.
(Pressure head.)

(d) The nature of the works by means of which the power is to be developed.....
(Turbine, Pelton wheel, hydraulic ram, etc.)

(e) The works to be located, and the water to be released, in.....of Sec....., (40-acre subdivision.)
T....., R....., G. & S. R. B. & M.
(No. N. or S.) (No. E. or W.)

(f) Is water to be returned to any stream?.....If so, name stream and describe location of point where returned. .....in the....., Sec....., T....., R....., G. & S. R. B. & M.
(Yes or No.) (Name of stream.) (40-acre subdivision.) (No. N. or S.) (No. E. or W.)

(g) The use to which the power is to be applied is .....
(For distribution and sale or private use, etc.)
.....
(Give general description of locality where power will be used.)

14. Mining Use. The mines to be served are.....known
(Placer gold, lode gold, copper, etc.)
as the.....
(Names of claims or name of group.)
located in....., Sec....., T....., R....., G. & S. R. B. & M.
(40-acre subdivision.) (No. N. or S.) (No. E. or W.)
and owned by.....
The method of utilizing the water is.....
Will the water be polluted by chemicals or otherwise?.....
(Explain nature of pollution, if any.)
What disposition is made of water after use?.....
(State if stored for reuse. If returned to a stream give name of stream and description of 40-acre tract to which returned.)

GENERAL

15. Are the maps required by the Rules and Regulations filed with Application?....Yes..... If not, (Yes or No.)
state specifically the time required for filing same.....

16. The proposed point of diversion is on land of The United States of America (Grand Canyon National Park)
(Insert name of owner, or state on Public Domain, National Forest, State Land, etc.)

17. The proposed conduit system is on land of The United States of America (Grand Canyon National Park.)
(Insert name of owner, or state on Public Domain, National Forest, State Land, etc.)

18. The land at the proposed place of use is owned by The United States of America (Grand Canyon National Park)

19. Post office used by those living near the proposed point of diversion is.....Kaibab Post Office, Arizona., located in the area of water use.

20. Of the applicant's knowledge, has the water described herein ever been appropriated, claimed or used by others?.....No..... If so, file a statement herewith furnishing names of former appropriators or users of the water, and supporting applicant's claim that the water is now subject to appropriation.

21. If the source of supply is a stream, state names and addresses of three water users from the stream below the proposed point of diversion; or, if there are no water users from stream below the proposed point of diversion, or if the source of supply is other than a stream, furnish the names and addresses of at least three residents of the vicinity familiar with the source of supply and the proposed use of water.

The United States of America.
Utah Parks Company - by lease from the United States
Fred Harvey - by lease from the United States

- - - - - - - - - -

NOTE: The water is pumped from point of diversion to the distribution tanks described under Par. 7 and from these tanks, by means of mains and laterals, the water is distributed to the various places of use at Headquarters of Grand Canyon National Park on the North Rim of Grand Canyon (Bright Angel Point) located in Sec. 3, T 32 N, R 3 E and Sec. 34, T 33 N, R 3 E, G & S. R. B & M. (unsurveyed) in Coconino County Arizona.

THE UNITED STATES OF AMERICA,
by (SGD) M. R. Tillotson
Signature of Applicant.
Superintendent Grand Canyon National Park.

00-00-0000: application for a permit: to appropriate public waters of the state of arizona; permit no. a-1093, application no. a-1765

ORDER OF CORRECTION

STATE OF ARIZONA, }
County of Maricopa. } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction or completion, as follows:

In order to retain its priority, this application must be corrected, completed and refiled in the office of the State Water Commissioner on or before....., 19.....

WITNESS my hand and seal of office this.....day of....., 19.....

.....
State Water Commissioner.

Application No. A-1765 Permit No. A-1093

PERMIT

STATE OF ARIZONA, }
County of Maricopa. } ss.

This is to certify that I have examined the foregoing application and do hereby approve the same, and grant to the applicant a permit to appropriate the water described therein subject to the following limitations and conditions:

The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and shall not exceed One Hundred Fifty Thousand (150,000) gallons per day.

The priority of date under this permit is April 30, 1937.

Actual construction work shall begin on or before June 28, 1938, and shall be prosecuted with reasonable diligence and be completed on or before June 28, 1942.

Complete application of the water to the proposed use shall be made on or before June 28, 1943.

WITNESS my hand and seal of office this 29th day of June, 19 37

(SEAL.) (SGD) Edwin T. Stewart
State Water Commissioner.

Application No. A-1765
Permit No. A-1093

PERMIT
To Appropriate Public Waters of the State of Arizona

District No.

This instrument was first received in the office of the State Water Commissioner at Phoenix, Arizona, on the 30th day of April, 1937, at 9:00 o'clock A. M.

Returned to applicant for correction

Corrected application refiled

Approved June 29, 1937.

Recorded in Book No. 10 of Applications for Permit at page 1765

(SEAL) (SGD) Edwin T. Stewart
State Water Commissioner.

THE ARIZONA PRINTERY, INC.

RECORDED
COMPARED

Permit No. A-1093 Application No. A-1765.

(Corrected as per Supt. Tillotson's letter of 4/21/37)

APPLICATION FOR A PERMIT

To Appropriate Public Waters of the State of Arizona

Filed April 30, 1937, at 9:00 A. M.
(Applicant must not fill in the above blanks.)

I, The United States of America, by M. R. Tillotson, Superintendent of Grand Canyon National Park
(Name of Applicant.)

of Grand Canyon (Postoffice.), County of Coconino,

State of Arizona, do hereby make application for a permit to appropriate the following described unappropriated waters of the State of Arizona:

1. The source of the proposed appropriation is Roaring Springs, a tributary of Roaring Springs Creek, which is a tributary of Bright Angel Creek
(Name of stream or name of reservoir and stream if water is diverted from reservoir.)

2. The amount of water which the applicant intends to apply to beneficial use is:

For Municipal (Municipal or Domestic.) use, 150,000 gallons per day.

For (Irrigation.) use, (Cubic feet per second, or acre feet per acre per annum.)

For (Mining or Stock Watering.) use, (Cubic feet per second, or gallons per day.)

For (Power.) use, cubic feet per second.

For use,

3. The point of diversion is located in the stream caused by Roaring Springs, at a point from
(State bearing and distance to corner, distance to section or quarter section corner.)
which the south quarter corner of Section 18, T 34 N, R 3 E, G & S R B & M bears N23°00'W 57221 feet, and the junction of Roaring Springs Creek and Bright Angel Creek bears ~~S49°30'E 664 feet.~~ S46°50'E 664 feet. (This correction made as per telegram of April 12, 1937, to Supt. Tillotson.)

being within the unsurveyed land, SW¼ of SW¼ of Sec. 2, T. 32 North
(State 40-acre subdivision of U. S. Government survey or projection thereof.) (No. N. or S.)
R. 3 East, G. & S. R. B. & M., in the County of Coconino, as projected from said
(No. E. or W.)
south quarter corner of Section 18, T 34 N, R 3 E.

4. The main pipe line is now ~~18,664~~ 2.17 miles in length, terminating in the
(Main ditch, canal or pipe line.)
SW¼ of NW¼ of Sec. 34, T. 33 North, R. 3 East, G. & S. R. B. & M.,
as projected.
(State 40-acre subdivision of U. S. Government survey or projection thereof.) (No. N. or S.) (No. E. or W.)
the proposed location being shown throughout on the accompanying map.

DESCRIPTION OF WORKS

5. Diversion Works: (a) Diversion will be by gravity, the diverting dam to be ~~xxxxxxxxxxxxxxxx~~ is feet in height (stream bed to overflow), from a small masonry collecting reservoir to the pump system. long on top, and constructed of
(Concrete, earth, brush, etc.)

(b) Description of headgate The headgates consist of two 3" pipes, with valve controls to serve the pumps.
(Timber, concrete, etc., number and size of openings.)

(c) If water is to be pumped give general description There are two Ledgeman triplex pumps, each of 20 g.p.m. capacity, direct connected to two 30 HP induction motors, which pump against a static head of 300 feet. These pumps will be replaced by larger ones when necessary.
(Size and type of pump.)
(Give number of engines or motors and total head against which water is to be lifted, etc.)

Do not use this form in making application for a permit to construct a reservoir and store water. A special form for this purpose may be obtained from the State Water Commissioner.

(This is a true copy of official application and permit in the files of the State Land Dept. Grand Canyon Nat'l. Pk. - 1/25/39 - S.H.)

Original and 1 copy mailed Supt. Tillotson 4/30/37 KH
1 copy " 27 " " 4/21/37

R-2

6. **Conduit System.** (a) Canal, ditch, flume: Width on top (at water line) ..... feet; width at bottom ..... feet; depth of water..... feet; length ..... feet; grade ..... feet per 1,000 feet; materials of construction .....
(Cross out two not used.)

(b) Pipe line: Diameter ~~24~~ inches; length 11,462 feet; grade Variable ~~fall~~ feet per 1,000 feet; total ~~fall~~ lift from intake to outlet 2870 feet; kind seamless special steel.
(Riveted steel, cement, wood-stave, etc.)

NOTE.—If a combination of different sizes or kinds of conduit is to be used, attach extra sheets with complete description, also show location of each clearly on map.

7. **Distributing Works.** Tank ~~or Trough~~: Material 1 Redwood,existing.....24 ft. diameter....
1 Concrete,proposed..Size..Not designed.....
(Cross out one.)
Capacity 30,000 gallons 1 Redwood,existing.....30 ft. diameter....
50,000 gallons from which various sized pipes serve the North Rim Area at
150,000 gallons Bright Angel Point.

8. **Cost and Construction Schedule.** ~~The estimated cost of the proposed project is $~~ The estimated cost of the proposed project is $200,000.00; ($117,452. now expended)
It is proposed to begin construction within ~~additional~~ to complete as described 1 year after the approval of this application, to complete construction within ~~5 years~~ 4 years thereafter and to completely apply the water to the proposed use ~~5 years~~ after the ~~beginning of construction~~ present date.
(Not over 1 year.)
by enlarging pump units
~~beginning of construction~~

DESCRIPTION OF PROPOSED USE

9. **Domestic Use.** Domestic use is proposed as follows: All uses of a Village, including fire protection, drinking water, lavatories and limited industrial activities and stock watering and incidental uses which may The population has grown from 0 to 400 people per day since 1918, and should reach 1500 within 5 years. The present 20 miles will be increased to 100 with this growth.

10. **Municipal Use.** To supply the city of ~~Municipal~~ .....
(Name of.) ..... County, having a present population of ....., and an estimated population of ..... in 19.....

11. **Irrigation Use.** (a) The land to be irrigated has an area of ..... acres; is located in ..... County, Arizona, and is particularly described by legal subdivisions as follows:

(Describe the subdivisions of the township or section the entire area of which it is proposed to irrigate, by the largest possible legal subdivisions, in the table below, inserting the area in the acreage column. In cases of irregular shaped parcels use a separate line to describe each 2½ acre subdivision in which they occur and insert only the area of such subdivision to be irrigated in the acreage column.)

Tp.	Range	Sec.	SUBDIVISIONS	Number Acres To Be Irrigated

(If more space is required, attach separate sheet.)

(b) What is the character of the soil? .....

(c) What quantity of water is necessary to raise proposed crops? .....
(Acre feet per acre per annum.)

(d) Land to be irrigated is owned by ....
(Name of owner.) (If applicant is lessee, etc., so state.)

(e) The irrigation season will begin about ..... and end about .....
(Beginning date each season.) (Closing date each season.)

(f) Has the land to be irrigated any water right or source of water supply other than that herein applied for? ..... Describe the nature and amount of any additional supply. .....
.....

12. **Stock Watering Use.** (a) What kind of stock is it proposed to serve? .....

(b) What is the average number of stock it is proposed to serve per annum? .....

(c) What is the maximum number of stock it is proposed to serve? .....
.....

13. Power Use. (a) The maximum amount of water to be used through the penstock is See separate application. cubic feet per second.

(b) Total amount of power to be developed ..... theoretical horsepower. (Second feet × fall ÷ 8.8.)

(c) Total fall to be utilized ..... feet. (Pressure head.)

(d) The nature of the works by means of which the power is to be developed ..... (Turbine, Pelton wheel, hydraulic ram, etc.)

(e) The works to be located, and the water to be released, in ..... (40-acre subdivision.) of Sec....., T. ..... (No. N. or S.), R. ..... (No. E. or W.), G. & S. R. B. & M.

(f) Is water to be returned to any stream? ..... (Yes or No.) If so, name stream and describe location of point where returned ..... (Name of stream.) in the ..... (40-acre subdivision.), Sec....., T..... (No. N. or S.), R. ..... (No. E. or W.), G. & S. R. B. & M.

(g) The use to which the power is to be applied is ..... (For distribution and sale or private use, etc.)

14. Mining Use. The mines to be served are ..... (Placer gold, lode gold, copper, etc.) known as the ..... (Names of claims or name of group.) located in ..... (40-acre subdivision.), Sec....., T..... (No. N. or S.), R. ..... (No. E. or W.), G. & S. R. B. & M., and owned by .....

The method of utilizing the water is .....

Will the water be polluted by chemicals or otherwise? ..... (Explain nature of pollution, if any.)

What disposition is made of water after use? ..... (State if stored for reuse. If returned to a stream give name of stream and description of 40-acre tract to which returned.)

GENERAL

15. Are the maps required by the Rules and Regulations filed with Application? Yes (Yes or No.) If not, state specifically the time required for filing same .....

16. The proposed point of diversion is on land of The United States of America (Grand Canyon National Park) (Insert name of owner, or state on Public Domain, National Forest, State Land, etc.)

17. The proposed conduit system is on land of The United States of America (Grand Canyon National Park) (Insert name of owner, or state on Public Domain, National Forest, State Land, etc.)

18. The land at the proposed place of use is owned by The United States of America (Grand Canyon National Park)

19. Post office used by those living near the proposed point of diversion is Kaibab Post Office, Arizona. Located in the area of water use.

20. Of the applicant's knowledge, has the water described herein ever been appropriated, claimed or used by others? No If so, file a statement herewith furnishing names of former appropriators or users of the water, and supporting applicant's claim that the water is now subject to appropriation.

21. If the source of supply is a stream, state names and addresses of water users from the stream below the proposed point of diversion; or, if the source of supply is other than a stream, furnish the names and addresses of at least three residents of the vicinity familiar with the source of supply and the proposed use of water.

The United States of America.

Utah Parks Company - by lease from the United States

Fred Harvey - by lease from the United States

NOTE: The water is pumped from point of diversion to the distribution tanks described under Par. 7 and from these tanks, by means of mains and laterals, the water is distributed to the various places of use at Headquarters of Grand Canyon National Park on the North Rim of Grand Canyon (Bright Angel Point) located in Sec. 3, T. 32 N. R. 3 E. and Sec. 34, T. 33 N. R. 3 E, G. & S. R. B&M, (unsurveyed) in Coconino County, Arizona."

(Signed) United States of America,
by M. R. Tillotson, Superintendent,
Signature of Applicant.
Grand Canyon National Park.

A-3

29

4

ORDER OF CORRECTION

STATE OF ARIZONA, County of Maricopa. } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for correction or completion, as follows:

In order to retain its priority, this application must be corrected, completed and refiled in the office of the State Water Commissioner on or before ....., 19.....

WITNESS my hand and seal of office this ..... day of ....., 19.....

State Water Commissioner.

Application No. A-1765 RECORDED COMPARED Permit No. A-1093

PERMIT

(Permit copied from wording received with Supt. Tillotson's letter of 7/10/39)

STATE OF ARIZONA, County of Maricopa. } ss.

This is to certify that I have examined the foregoing application and do hereby approve the same, and grant to the applicant a permit to appropriate the water described therein subject to the following limitations and conditions:

The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and shall not exceed One Hundred Fifty Thousand (150,000) gallons per day.

The priority of date under this permit is April 30, 1937.

Actual construction work shall begin on or before June 28, 1938, (now) and shall be prosecuted with reasonable diligence and be completed on or before June 28, 1942. (extended to 12/31/48)

Complete application of the water to the proposed use shall be made on or before June 28, 1943.

WITNESS my hand and seal of office this 29th day of June, 19 37.

(SEAL)

(Signed), Edwin T. Stewart,
State Water Commissioner.

Application No. A-1765
Permit No. A-1093

PERMIT
To Appropriate Public Waters of the State of Arizona

District No. .....

This instrument was first received in the office of the State Water Commissioner at Phoenix, Arizona, on the 30th day of April, 19 37, at 9:00 o'clock A. M. 30

Returned to applicant for correction .....

Corrected application refiled .....

Approved June 29, 1937

Recorded in Book No. 10 of Applications for Permit at page 1765

(Signed) Edwin T. Stewart
State Water Commissioner.

(SEAL)

THE BLANTON STATIONERS INC. - PHOENIX, ARIZONA

Supporting Hydro Data

C
O
P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES - SURFACE WATER

October 17, 1952

Superintendent
Grand Canyon National Park
Grand Canyon, Arizona

Dear Sir:

Subject: Roaring Springs

The following lists the miscellaneous discharge measurements made in the Roaring Springs Creek area during the summer months of 1952:

Date 1952	Roaring Springs Cr. at mouth	Bright Angel Creek above Roaring Springs	Bright Angel Creek at mouth
June 21	13.0	19.4	39
July 31	9.6	11.3	28
Aug. 30	8.4	10.7	23
Oct. 10	7.3	8.83	*21

Note.- September measurement postponed because of Sept. 20-21 flood runoff in area.

*Estimated on basis of measurements made Oct. 7 and 14; 22.8 cfs and 20.4 cfs respectively.

This completes investigations which we propose to make this year. However, it is anticipated that we will again measure Roaring Springs about June 1953 under our general program of such spring inflow to the Colorado River in the Grand Canyon area.

Very truly yours

(SIGNED) John H. Gardiner

JOHN H. GARDINER
District Engineer

cc. Mr. Hely

Copy to: Reg Dir Region Three 2 ✓

02-15-1952: memorandum to regional director from superintendent regarding additional water supply, south rim

No. 3

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

GRAND CANYON NATIONAL PARK
Grand Canyon, Arizona

February 15, 1952

Memorandum

To: Regional Director, Region Three

From: Superintendent

Subject: Additional Water Supply, South Rim, Grand Canyon National Park

In reply to Mr. Kittredge's inquiry in his memorandum of January 28, we have the following information:

The only measurements at Roaring Springs were those taken February 9, 1927 by Utah Parks Company Engineers, at two points:

1. Bright Angel Creek, 200 feet above its junction with Roaring Springs Creek, which showed a flow of 9.30 second feet.

2. Roaring Springs Creek below Roaring Springs, which showed a flow of 7.69 second feet. (Total flow 16.99 second feet.)

Both Roaring Springs and Bright Angel Creek above the junction of the two streams have a considerable seasonal and yearly fluctuation; last year (1951) being the lowest since the Utah Parks pumping station was installed, according to Utah Parks engineers.

Indian Gardens

There are three pumps at Indian Gardens with the following capacities:

a. 75 gals. per minute
b. 160 gals. per minute
c. 160 gals. per minute

Normally only one of the larger pumps is used at a time; occasionally, however, a large one and the small one are used together; and it is possible to use all three at once.

Stream flows at Indian Gardens:

Minimum - - - - - 150 gals. per minute
Normal - - - - - 200 gals. per minute

It was the opinion of Santa Fe engineers that only rarely would the springs show as much fluctuation as indicated above. The flow is remarkably steady at 200 gallons per minute, year by year and at all seasons of the year. Last summer, during July and August, Santa Fe pumping records averaged 8,000,000 gallons per month, and they were taking the entire output of the springs.

(SIGNED)

H. C. Bryant
Superintendent

In triplicate

Other Supporting Information

11-14-1974: memorandum to superintendents of chiricahua, grand canyon and tonto from regional director, western region regard

United States Department of the Interior

NATIONAL PARK SERVICE
WESTERN REGION
450 GOLDEN GATE AVENUE, BOX 36063
SAN FRANCISCO, CALIFORNIA 94102

IN REPLY REFER TO:

L54(WR)PSW November 14, 1974
CHIR/WR Docket File #1
GRCA NM/WR Docket File #2
GRCA NP/WR Docket Files #3,
4,5,7 and 8
TONTO/WR Docket Files #1&2

Memorandum

To: Superintendent, Chiricahua
Superintendent, Grand Canyon
Superintendent, Tonto

From: ACTING Regional Director, Western Region

Subject: Water Right Docket Material

Enclosed for your docket files and information are State of Arizona orders of cancellation for various applications for diversion of water sources in Chiricahua National Monument, Grand Canyon National Monument, Grand Canyon National Park and Tonto National Monument. As you recall, we had been given an extension of time as a result of our letter of September 14, 1973, to the State Land Department of Arizona in which we discussed the status of our water use and the comity nature of our filings. This extension of time has lapsed and the State has administratively cancelled the applications, copies enclosed. These applications, however, have not been active and would not qualify for license according to Arizona State Law, in any case. All of these diversions are within the Park and are protected under the Reservation Doctrine when they are used.

Since we are essentially only appropriating water on a regular basis from Roaring Springs, any action taken on our part to acquire a State License on Roaring Springs might be construed by the State as an implied waiver (or abandonment) of our rights on the other points of diversion. The best course of action in this case is to allow the State to administer this unilateral action while we maintain our position of comity.

John H Davis

CONSERVE AMERICA'S ENERGY

Enclosures

cc:
WASO, Water Resources, w/encls - Mr. Berte
Field Solicitor, San Francisco Office, w/o encls
General Superintendent, SOAR

Save Energy and You Serve America!

02-01-1965: memorandum to regional director from chief regarding amendment to application no. a-1765, permit no. a-1093

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON, D.C. 20240

IN REPLY REFER TO:
L54-SLW

February 1, 1965

RECEIVED
NPS SOUTHWEST REGIONAL OFFICE
FEB 4 1965

	Signature	Date
Regional Director		
Operations		
Administration		
Coop. Activities		
Development		
Resource Studies		
1 - Boldt, WODC	WEReed	2/8
Files		

Memorandum

To: Regional Director, Southwest Region

From: Chief, Branch of Water Resources

Subject: Amendment to Application No. A-1765, Permit No. A-1093, Grand Canyon

We have received the Director's copy of Regional Director Beard's letter of January 21 to the State Land Commissioner requesting the Commission to amend Permit No. A-1093 for the use of water from Roaring Springs. It appears to be factual and complete.

We are placing the map in the pertinent Docket No. 3 loosely under the front cover until the final mapping mentioned in Mr. Beard's closing paragraph is distributed.

E. W. Reed

E W Reed
by Gordon E Robertson

cc:
Superintendent, Grand Canyon
Chief, WODC (2)

L54 Grca

NARRATIVE

The Contract for expansion of the Water and Sewer Systems, Bright Angel Area, North Rim, Grand Canyon National Park was awarded to Arizona Mining Supply Company of Prescott, Arizona, on July 26, 1963, based on their low bid of $75,360.50, and designated as Contract No. 14-10-0315-356.

Order to Proceed was issued on August 1, 1963, with August 2, 1963 recorded as the first calendar day of the contract period. A pre-construction conference was held on August 6, 1963, with the following persons present: Vernon Ruesch, Jack E. Watts and Roy Stamps representing the National Park Service; Willis Gorden, Frank Waitman and Andy Hudson representing the contracting firm. Plans and Specifications were carefully reviewed and the contractor's questions answered. NPS

Equipment submittals were entered for approval on August 16, 1963, and approvals granted as necessary, with the exception of the submittal for separate service entrance breaker and polyphase meter socket, which were noted to have been specified as a combination unit such as Square D, Catalog No. CM7-1QRF-100. The Contractor was advised of these approval conditions by mail on August 28, 1963. The Contractor's work schedule was submitted on September 4, 1963, indicating that waterlines would be completed by the end of September. Re-submittal on disapproved electrical systems was made on September 12, 1963 and approved.

Request for submittal of concrete design was issued by the National Park Service on September 16, 1963, and responded to by the Contractor on October 19, 1963. Lab reports by Arizona Testing Lab indicated that the mix was satisfactory, and resulted in 7 day 2,460 psi and estimated 3,200 psi concrete.

Due to the advent of winter and resulting cold weather, the Contractor was given a Stop Order effective at the close of work on October 25, 1963.

On January 22, 1964 the Contractor requested that the length of 4" Cast Iron Pipe be rechecked because his foreman believed that there was more installed than called for in the Specifications. The Contractor was advised that a remeasurement would be taken when the contract resumed in the Spring.

An Order to Resume Work was issued effective June 8, 1964 and the Contractor arrived on the site June 23, 1964, and began removing the protective materials installed last fall to protect the work from winter weather. This protective material was installed at the request and under the direction of Waldo Wilcox, and resulted in a complete lack of damage, something which in this country is very unusual.

The Contractor inquired by letter on June 4, 1964 if it would be possible to receive payment for materials which were in storage in

Flagstaff, and was advised on June 11, that payment would be made only on materials which are on the job site, as provided in Clause 7 of the General Provisions of the Contract.

Due to misalignment of the entrance fittings in the sewage lift station sump, it was necessary to move the entire lift station 1 foot southwest. This put the pipes in proper alignment; however, it was then discovered that the 6" clay pipes would not fit into the entrance fittings. It was necessary to install cast iron connectors and pipe sections to allow proper size connections.

No other major problems came up until the question of frost protection for the lift station arose. The system is designed to operate only until a complete system is designed and constructed, but in the interim it is still necessary to provide some type of frost protection and drainage facilities in consideration of Fall operation and deep winter freeze.

Change Order No. 1, dated August 12, 1964 provided the necessary drainage facilities but no frost protection for the above ground portion of the force main. This frost protection is proposed to be provided by electrical wrapping, which may be turned on during cold weather to heat pipes. This wrapping will be done and paid for by the Park when the system goes into operation.

After solution of the forst problem, construction moved into the final stages, and final inspection of the project was made on August 14, 1964. At this time it was agreed that the Contractor would return when commercial power is available to the site, and accomplish installation of the warning horn, storage batteries, and pressure switch connection; and to make final adjustments of the electrical control system to provide proper operation at commercial power levels.

Final payment was made after receipt of the properly executed "Release of Claims," dated August 26, 1964. There were no liquidated damages or additional expenses, and the final payment total was $78,205.00, a very good job for a reasonable price.

On the attached final payment form Items 1 through 12 are water system with Items 13 through 20 as sewer system. Change Order No. 1 is sewer system.

NARRATIVE

B33-GRCA - Water and Sewer Extensions to Concessioner's Store, North Rim

Project was started July 1963 and completed October 1963.

Work consisted of the installation of 285 lineal feet of 6-inch vitrous clay pipe and 40 lineal feet of 6-inch cast iron soil pipe sewer line from new store to sewer main manhole. Three corrugated metal pipe manholes 24 inches in diameter with iron cover and cleanout incorporated at store end.

330 lineal feet of 6-inch cast iron waterline with 6-inch gate valve and 4-inch gate valve, and 75 lineal feet of 2-inch galvanized waterline with one 2-inch gate valve and meter installed for service to store.

Installed one fire hydrant with 4-inch gate valve.

All work performed by Park labor forces.

08-07-1963: memorandum to director from acting regional director regarding request for extension of time, application no. a-1765,

Fields
Berkshire

Southwest Region
Santa Fe, New Mexico

154

AUG 7 1963

Memorandum

To: Director

From: Acting Regional Director

Subject: Request for Extension of Time, Application No. A-1765, Permit No. A-1093, Docket No. 3, Roaring Springs, Grand Canyon National Park

Enclosed is a typed copy of Mr. Arnberger's letter of July 3 addressed to State Land Commissioner Lassen, Water Division, requesting an extension of time for lapsed application A-1765.

We have also enclosed a copy of P. C. Ryan's letter of July 10, 1963, and an Order granting an extension of time signed by Louis C. Duncan, Deputy State Land Commissioner.

The Order granting the extension of time is from December 31, 1961, to December 31, 1966, and we have time until December 31, 1967 to make full application of the water to beneficial use.

Please place copies of the letters of July 3 and July 10 as well as the Order granting extension of time in your assembly of Docket No. 3. Copies have been placed in our Docket No. 3 maintained in the Region and copies have been supplied to the Superintendent, Grand Canyon, and the Chief, WODC, for insertion in their Docket No. 3.

(SIGNED)

J. M. Carpenter
Acting Regional Director

In duplicate

Enclosures

cc: WODC (2), w/enc.
Superintendent, Grand Canyon, w/enc.

JEKell:dv 8/6/63

L 54 Geo

WR Copy
ewr 6/19

GRAND CANYON NATIONAL PARK

June 19, 1963

FOR THE RECORD

John Kell and Bill Fields telephoned on June 14, 1963, to report that they inadvertently failed to request an extension of time from the Arizona State Land Commissioner for the Roaring Springs diversion under Application 1765, Docket No. 3, Grand Canyon National Park. The present application is for 150,000 gpd and future estimated anticipated need is for 560,000 gpd. Bill Fields reported that the present flow is approximately 20 c.f.s. I advised Messrs. Kell and Fields to write the State Land Commissioner and request an extension of time only and not to request a change in quantity. However, I suggested that Mr. Robertson would check with Mr. Dunn who was scheduled to visit this office on Monday, June 17, and that Mr. Robertson would telephone them after discussing the matter with Mr. Dunn. Mr. Reed was not available being on annual leave. Mr. Dunn was at the office on Monday and agreed that a letter requesting an extension of time should suffice. Mr. Dunn and Mr. Robertson spoke to Mr. Kell via telephone. Mr. Dunn also cautioned Mr. Kell against seeking a change in quantity at the Roaring Springs diversion, instead he advised that our rights at various points of diversion on Bright Angel Creek should be amended for additional quantities.

VABerte

Victor A. Berte
Hydrologist, Branch of Water Resources

L54-GBL

March 15, 1960

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Orders Granting Extensions of Time From 1956 to 1961 for Application A-1765, Docket 3 and Application A-1878, Docket 5, Grand Canyon National Park

We transmitted copies of orders granting extensions of time for Application A-1765, Roaring Springs, Docket 3 and Application A-1878, Bright Angel Creek, Docket 5, to you, the Superintendent and WODC with our memorandum of December 11, 1959. Your memorandum of February 29, 1960 states that neither you nor the Superintendent are able to find copies of the subject orders. Attached are your copies. We are also again sending copies to the Superintendent and WODC.

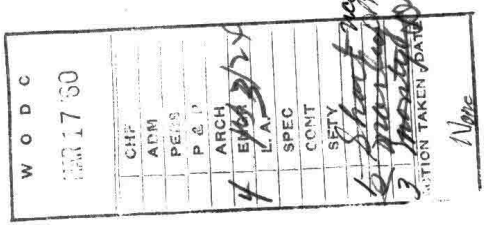
WODC rec'd 12-11-59

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Attachments 2

Copy to: Superintendent, Grand Canyon N.P., w/identical attachments
Chief, WODC (2), w/identical attachments



12-01-1955: memorandum to regional director, region three from chief regarding north rim water system and rights, application a-

WR Copy

L54-L

December 1, 1955

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: North Rim Water System and Rights, Application A-1765, Docket 3, Grand Canyon

The memorandum of November 18 from Mr. McLaughlin will be very beneficial when requesting the next extension of time next fall, particularly if he supplements it with a similar report on the day of peak pumping and use next summer. It supplies the evidence of diligence which we will need.

It is quite possible that full beneficial use of the authorized 150,000 gallons per day is being used for municipal purposes, but I cannot fully support proof of the last 25,000 gallons. They were probably used for ligitimate purposes of which I am not aware, and the Engineer of the Water Division would probably accept our claim to full use without proof, if we were ready to offer it.

The other important feature is that the pumps had to operate at about 97% of maximum capacity on July 4 to keep the use of stored water down to 10% of the supply. We are close to the point where more diversion capacity and more storage capacity will be needed, and the order in which the two are increased will probably be governed by economic factors. However, as soon as we can make proof on diversions of 150,000 gallons per day, we will be in a better position to file a supplemental application for the appropriation of more water under the State quota of Colorado River water.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Copy to: Superintendent, Grand Canyon National Park
Western Office of Design and Construction
Mr. P. Miller
~~Mr. Dunn~~

AvVDunn:lct

11-18-1955: memorandum to director from superintendent regarding north rim water system and rights, application a-1765

UNITED STATES

DEPARTMENT OF THE INTERIOR

L54-L
C/R D5039

NATIONAL PARK SERVICE
Grand Canyon National Park
Grand Canyon, Arizona

NOV 18 1955

Memorandum

To: Director

From: Superintendent, Grand Canyon National Park

Subject: North Rim Water System and Rights, Application A-1765, Docket 3, Grand Canyon National Park.

Listed below is the information asked for in Mr. A. van V. Dunn's memorandum of May 13, 1955.

Averages of gallons of water pumped from actual meter readings taken at the storage tanks were:

July . . . . . 57,935 gallons per day
August . . . . . 71,700 gallons per day
September . . . . 42,268 gallons per day

On July 4th, 125,100 gallons of water were pumped. Even with this, the large steel storage tank (500,000 gallon capacity) dropped approximately four feet in depth of water contained, or 40,000 gallons. This would indicate that on July 4th approximately 165,000 gallons of water were used on the North Rim.

There were 1,595 visitors and 325 concessioner and National Park Service employees on July 4. This was the maximum use day from the visitor standpoint.

Acres of irrigation would total approximately two. Amount of water used at federal and concession utility areas would average about 1,000 gallons per day. Water for the ice plant would total 1,200 gallons per day, when operating. There is no air conditioning equipment in use.

John S. McLaughlin
Superintendent

In duplicate

Copy to: Reg Dir., Region Three

05-13-1955: memorandum to regional director from chief regarding north rim water system and rights, application a-1765

WR Copy

In reply refer to:
L54-L

May 13, 1955

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: North Rim Water System and Rights, Application A-1765, Docket 3, Grand Canyon National Park

The information in the memorandum of March 31, from Mr. Patraw, indicates encouraging progress toward the perfection of rights, but the need for continuing extensions of time as long as the State Water Division will grant them.

The right authorizes the diversion and use of 150,000 gallons per day. The pump capacity has been increased from 57,600 gpd to 129,000 gpd when the pumps operate 24 hours per day. This is progress but we cannot divert the authorized quantity of water even on days of peak demand. In fact, if we could, and did pump and use 150,000 gpd, we should be considering a supplemental water right.

With 31,180 North Rim visitors in August 1954, there was an average domestic demand of 50,000 gpd, neglecting employee use, utility use, and possible irrigation and air conditioning. It is possible that peak day visitor attendance may have been two or three times the monthly average. It will be helpful for support of further extensions of time, due at the close of 1956, if Mr. Patraw will supply the peak day visitor counts and number of Federal and concession employees for the same dates this summer and next, and will describe and estimate water uses other than for domestic purposes at the same time. We should have acreage if there is irrigation, approximate quantities of water used at Federal and concession utility areas, and number and type of air conditioning units with daily water demand, if known.

It seems probable that there may be peak day water use of the authorized 150,000 gpd, but that the use in excess of 75,000 or 100,000 gpd is from storage. Support for this type of information will greatly strengthen our next request for extension of time.

SIGNED

A. van V. Dunn
Chief, Water Resources Section

Mr. Langley
Mr. P. Miller
Mr. Dunn

AvVDunn:lct

In duplicate

Copy to: Western Office of Design and Construction

02-17-1955: letter to state land commissioner from chief regarding application a-1765, permit a-1093 roaring springs

WR Copy

In reply refer to:
L54-L

February 17, 1955

State Land Commissioner
Phoenix, Arizona

Application A-1765, Permit A-1093
Roaring Springs, Grand Canyon National Park

Dear Sir:

In reply to the letter of February 19 from the Secretary, Surface Water Division, request is hereby made for an extension of time in which to complete construction and make full beneficial use of water under the subject application and permit.

The following table gives the number of visitors at Grand Canyon National Park for the travel years, between October 1 and September 30 for 1946 to 1952, inclusive, and for the calendar years 1953 and 1954, the number in 1953 being abnormally high due to a National Scout Convention in California.

1946 - 488,819	1951 - 688,673
1947 - 611,318	1952 - 729,181
1948 - 618,210	1953 - 836,878
1949 - 605,331	1954 - 814,130
1950 - 654,348	

Of these visitors, 23,568 were recorded at the North Rim, served by the subject water supply, in 1953, and 23,018 were recorded in 1954. Although the annual visitor count was somewhat less in 1954 than in 1953, for reason given, the number of visitors at the North Rim was slightly higher in August 1954 than in 1953. The average visitor at the Park stays about 1.47 days during July and August.

Neither the water demand nor the pump capacity now permits proof of use of the authorized quantity of water. The water system is now little more than adequate to supply the demand, and the trend of increasing annual attendance is such that it would be unwise to limit rights by proof of construction of the existing system and past water useage.

Sincerely yours,

[illegible]

A. van V. Dunn
Chief, Water Resources Section

Copy to: Regional Director, Region Three (2) detached
Western Office of Design and Construction detached
Mr. Dunn

AvVDunn:lct

02-17-1955: memorandum to regional director from chief regarding water right application a-1765

In reply refer to:
L54-L

February 17, 1955

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Section

Subject: Water Right Application A-1765, Docket 3, Grand Canyon

Attached are two copies of letter of February 19 from Kay Hammond, Secretary, Surface Water Division, and our reply requesting an extension of time in which to complete the water system and make beneficial use of the authorized 150,000 gallons of water per day. Our letter to the State Land Commissioner should be filed at top of contents in Docket 3, at your Office and the Park.

From the attendance records and description of the water system in the Application A-1765, it appears that July-August water demands may average 80% of the water which can be pumped in 24 hours. Peak demand is doubtless partially dependent on the storage at the North Rim, which totaled 280,000 gallons in 1937. Please confirm or supply a corrected description of pump and storage capacity. In proposed improvements, we find PCP U-52-3 and U-86 for Federal construction of more distribution system and a 2,000,000 gal. reservoir, but should also know what the UP Company proposes to do, if anything, to increase its pumping and storage capacity.

A. van V. Dunn
Chief, Water Resources Section

In duplicate

Attachments 4

Copy to: Western Office of Design and Construction

Office of
Chief, Western Office
Div. of Design and Const.
FEB 21 1955 A.M.
Supv. Architect
Supv. Engineer
Supv. Landscape Arch.
Safety Engineer

COPY

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZONA

August , 1953

Mr. John H. Schmutz

St. George, Utah

Dear Mr. Schmutz:

In accordance with Condition No. 21 of your Grazing Permit No. I-15-NP-166, authorizing you to use certain lands in Grand Canyon National Monument for grazing purposes, you are hereby authorized to construct at your own expense a stock-watering tank located in the east portion of Section 25, T 35 N, R 7 W, at the point shown on the attached overlay of your grazing allotment, subject to the following conditions:

1. It is necessary for you to comply with the state water laws by filing formal application for a water right, and it shall designate the United States Government as claimant; and approval must be obtained from the Director of the National Park Service before it is filed with the State Land Department. Two copies of the application and maps, together with a tracing of the map, shall be submitted to this office. You will be required to perfect the water rights on the tank at your own expense and according to the state water laws.

2. You will enclose the tank with a stock-proof fence, which is to be maintained by you in the future to prohibit watering of stray stock at the tank. Also, the gate to the tank must be kept locked when your stock are not on Monument lands.

3. This tank will be for your exclusive use and cannot be used by others.

Very truly yours,

/s/ Charles E. Shevlin

Charles E. Shevlin
Acting Superintendent

APPROVED:

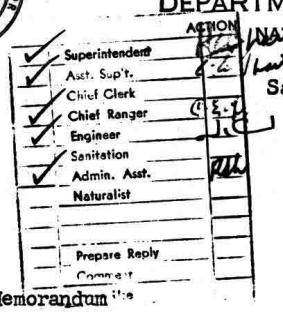
/s/ M. R. Tillotson
Regional Director

August 17, 1953
(Date)

Lands Div. - Washington Office-Copy

In reply refer to:
L54 GRCA-L

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Region Three
Santa Fe, New Mexico



January 9, 1953



Memorandum

To: Superintendent, Grand Canyon

From: Regional Chief, Land and Recreation Planning

Subject: Water Right Application A-1765, Permit A-1093, for Appropriation of Waters of Roaring Springs, Grand Canyon National Park

We have attached one copy of Mr. Dunn's memorandum of December 30 and one copy of his request for an extension of time, dated December 8, and a copy of Deputy State Land Commissioner's order granting the extension of time, dated December 16. These relate to Permit A-1093 for the appropriation of waters of Roaring Springs, Grand Canyon National Park. One copy of each should be inserted in your Grand Canyon National Park Docket No. 3.

Similar copies have been inserted in the Regional Office copy of Docket No. 3.

Milton J. McColm
Regional Chief of Land
and Recreation Planning

Attachments 3

Copy to: Director

In reply refer to:
L54 GRCA-L

December 30, 1952

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Branch

Subject: Water Right Application A-1765, Permit A-1093, for Appropriation of Waters of Roaring Springs, Grand Canyon National Park

Enclosed are two copies of our request for extension of time dated December 8, and two copies of the Deputy State Land Commissioner's Order Granting Extension of Time dated December 16, both relating to completion of construction and complete application of water to beneficial use under the above-designated water right application.

One copy of each should be inserted in each of the assemblies of Grand Canyon National Park Docket No. 3 at your office and at the Park.

[SGD.) A. VAN V. DUNN.

A. van V. Dunn
Chief, Water Resources Branch

In duplicate

Attachments 4

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON 25, D. C.

In reply refer to:
L54 GRAN

December 28, 1950

Memorandum

To: Regional Director, Region Three

From: Chief, Water Resources Branch

Subject: Water Right Application A-1765, Permit A-1093, for Appropriation of Waters of Roaring Springs, Grand Canyon National Park

Enclosed are two co ies of our request for extension of time dated November 16, and two copies of the Deputy State Land Commissioner's Order Granting Extension of Time dated December 7, both relating to completion of construction and complete application of water to beneficial use under the above-designated water right application.

One copy of each should be inserted in each of the assemblies of Grand Canyon National Park Deed 21 at your office and at the Park.

(SGD.) A. VAN V. DUNN.

A. van V. Dunn
Chief, Water Resources Branch

In duplicate

Attachments 4

SEHicks:sh

01-12-1948: memorandum to regional director from nps regarding request to the state land commissioner of arizona for an extensi

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
~~CHICAGO, ILLINOIS~~
Washington 25, D. C.

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

January 12, 1948.

MEMORANDUM for the Regional Director, Region Three.

Transmitted herewith are two copies of a request to the State Land Commissioner of Arizona for an extension of time in which to complete construction and make beneficial use of the waters of Roaring Springs at the North Rim of Grand Canyon National Park under Water Right Permit No. A-1093; and two copies of a report on my visit to that area last July, in which I have recorded the analysis on which I determined that an extension of time was needed.

I have attempted to limit the report to bare facts and conclusions, but I hope it offers stimulation for a coordinated program of development by this Service and the Utah Parks Company. I have been surprised by the extent to which the area has been developed to its present capacity, with good balance between the individual units such as housing and water supply. It is one of the few cases I have found which might lead me to ask where the next similar development for expansion is to be built. It seemed to me to be a fully planned development, complete, and fully used.

The one exception was that the full capacity was anticipated by the time the water right application was filed and the claim was made for an enlarged water system. The expanded system will constitute an enlargement of a system in which the concessioner now has an investment of more than $150,000. It follows adoption of a policy under which this Service hopes to provide most of the public utilities for the concessioners, and will follow consummation of the new concession contract. My report is intended to show that these problems are all related so that they may be integrated so far as Federal appropriations will permit.

(SGD) A. VAN V. DUNN
Chief, Water Resources Branch.

AvVD:sh.
Enclosure 694.
In duplicate.



UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Washington 25, D. C.

November 28, 1947.

Report on Water Use Under Water Right Permit A-1093 North Rim - Grand Canyon National Park

By

A. van V. Dunn,
Chief, Water Resources Branch

The writer visited the North Rim of Grand Canyon National Park in July 1947 to investigate the extent of use of the waters of the Roaring Springs under Water Right Application No. A-1765, Permit No. A-1093. The application is for the diversion and use of 150,000 gallons per day; and the permit, by former extensions of time, required that construction should be completed by December 31, 1947, and the water should be fully used by December 31, 1948. The investigation was to determine whether proof of construction and full water use could be made this winter, or if another extension of time would be needed.

It was found that the pump units now have a capacity of 96 gallons per minute and maintain the present water use of approximately 86,400 gallons per day when operating 16 hours per day. This water supply is adequate for the domestic demands of the related hotel, campground, and employee residential developments now existing in the area. However, these related developments are now being used to capacity and more water will be needed when they are enlarged. In addition, so far as there may have been irrigation of the area before the war, this water use has been abandoned by the concessioner as an economy measure, and the resumption of such activity would require either increased pump capacity or longer hours of pumping with the present installation. Increasing water use by longer hours of pumping is practical to supply some additional domestic demand, but it is not recommended that the supply and demand be allowed to reach a 24-hour pump schedule, and such operation would not provide but 129,600 of the authorized 150,000 gallons per day in any case.



GC-47-D-1
Looking toward Lodge from approach road near parking area. A few of the sleeping cabins are visible under trees on right. Cars are parked behind trees on left.



GC-47-D-2
Closer view of central building of Lodge. One of the deluxe cabins is shown on left, beyond one of the few irrigable lawns in the developed area.

From photographs GC-47-D-1 and GC-47-D-2 it is evident that very little of the area is adaptable to irrigation. A few grassy plots, like that in the lower left of GC-47-D-2 might be improved by such irrigation, but the need was not too evident in mid-July. The hotel and other developments are set in predominantly forested land which requires no irrigation. Irrigation, therefore, is a minor factor in the water demand and proof under Permit A-1093.

As shown in the appendix, the present public facilities create a domestic water demand approximately equal to the supply obtained by pumping 16 hours a day. Further use, therefore, is dependent on the provision of additional accommodations for the public, in lodge cabins, housekeeping cabins, and campgrounds. The increasing visitor attendance—25% greater in the Park in 1947 than in 1946, and 16% greater on the North Rim—indicates that more facilities are needed.

The Federal developments are now restricted by inadequate appropriations. The concessioner's developments are all deferred until the new concession contracts are approved by the Secretary, according to Mr. George A. Croft, Superintendent of Maintenance for the Utah Parks Company. Whether the visitor increase would have been as great on the North Rim as in the Park as a whole, in 1947, if there had been the facilities, there is not going to be any full use of the authorized quantity of water in one or two years, or even the provision of facilities for such use if the potential demand is created by increasing recreational travel.

The water system, from diversion to distribution reservoir, and the distribution system serving the Lodge, were built by the Utah Parks Company. The National Park Service has provided additional distribution system to serve its headquarters and the campground. The National Park Service has initiated all water rights in the name of the United States, and has expressed its intentions to provide all future utilities in its areas and to acquire those now owned by concessioners when appropriations will permit. Presumably, the policy regarding utilities and water rights will be in the new concession contract.

In the case of the North Rim water system, the total cost was estimated at $200,000 in 1937, of which $153,000 had been expended at that time, largely by the Utah Parks Company. There has been little more construction since 1937, but the cost of completing the system now is approximately double that estimated. In considering the

further perfection of water rights, by construction and use of water, it can be recognized that there may be better diligence if the concessioner increases its investment. However, this will also mean extending the time until the National Park Service can fully conform with the policy it has adopted. The Assistant Superintendent of the Park advised in July that the Company would gladly turn over its present investment now, if the National Park Service would assume further maintenance of the system.

The conclusions from the investigation, therefore, are that an extension of time is needed in which to enlarge the water system and make full beneficial use of the water. An application for such extension has been made. In addition, there is now a fairly well balanced development of visitor accommodations and related utilities such as the water system. To increase the water use by 74%, as authorized and probably justified by attendance trends, all public facilities and related utilities must be enlarged proportionately. Proper integration of the activities of the United States, its concessioner, and the public is essential to the preservation and perfection of water rights.

Appendix

A. **Notes on Inspection of North Rim, Grand Canyon - July 1947**

(1)

NPS employees and families -	35 people
Lodge employees -	130 people
Lodge guest capacity in 56 deluxe cabins, 42 cabins with toilet and shower, and 178 cabin rooms dependent on central comfort stations -	360 people
Employees in unit of cafeteria and housekeeping cabins -	30 people
Capacity of housekeeping cabins 90, but has taken -	124 people
(Cabins have cold running water and dependent on central comfort stations.)	
Campground capacity when full -	145 people
Population of North Rim with facilities full-	824 people

(2) The Lodge is equipped with boiler plant for hot water and steam. There is no laundry, the work being done at Cedar City.

(3) Lawns were irrigated before the war, but the practice now abandoned because of the excessive pumping costs.

(4) Public campground was occupied by 30 employees of Standard Oil Company during summer of 1947 while constructing a new gas station -- a reduction of 30 in North Rim guest capacity.

(5) Pump unit at Roaring Springs now consists of 3 pumps of 32 gpm capacity each. George A. Croft, Supt. of Maintenance, estimated water leakage at 6 gpm in pumps and pump line. Pumps normally operated for 2 8-hour shifts during July and August.

(6) Cliff Dwelling Spring not being used in 1947 because of potential contamination by sewage disposal in the same drainage. (NPS should correct sanitary conditions or decide to allow water rights to lapse before the latter results from statutory limits of nonuse without forfeiture.)

B. Notes from 1947 Records of Attendance and Hotel Operation

	July	August	Season
(1) North Entrance Visitor Count	16,963	17,313	61,336
(2) Hotel and housekeeping cabin registration	9,572	9,472	
(3) Campground registration	1,691	1,789	

C. Visitor-Day Use Study

(1)	Total visitor-days of park use	168,121	170,116
	Total visitors to Park	113,732	116,870
	Average length of visitor stay	1.48 days	1.46 days
(2)	Probable total visitor-day use of North Rim:		
	16,963 x 1.48	25,105	
	17,313 x 1.46		25,277
	Actual visitor-day lodge and housekeeping cabin use (-)	12,181	12,390
	Total campground and transient day use	12,924	12,887
(3)	Total hotel and housekeeping cabin capacity	484	484
	Average daily hotel registration	393	399
	Average percent of capacity	79.2	82.5
(4)	Total campground capacity	145	145
	Average daily campground use at same percentages as hotel use	115	120
	Probable total campground visitor-days in July and August	3,560	3,730
	Probable average length of stay	2.1 days	2.08 days
(5)	Total campground and transient day use	12,924	12,887
	Total probable campground visitor-day use (-)	3,560	3,730
	Probable total transient use	9,364	9,157
	Probable average daily transient visitors	302	295

D. Derivation of Average Daily Water Demand

	July	August
(1) 35 NPS employees at 75 gpc	2,625 gallons	2,625 gallons
(2) 160 concessioner employees at 50 gpc	8,000 "	8,000 "
(3) 393 hotel and housekeeping cabin guests at 150 gpc	58,950 "	
399 hotel and housekeeping cabin guests at 150 gpc		59,850 "
(4) 115 campground guests at 35 gpc	4,025 "	
120 campground guests at 35 gpc		4,200 "
(5) 302 transients at 15 gpc	4,530 "	
295 transients at 15 gpc		4,425 "
(6) Probable average daily water use at North Rim	78,130 gallons	79,100 gallons
Additional water probably used when accommodations are all full (25% of item D3-D5)	16,876 "	17,118 "
Probable total peak day demand	95,006 "	96,218 "
(7) All water for outlying areas on the North Rim is also hauled from this system.		
(8) Pump capacity, operating 16 hours per day is only	86,400 gpc	86,400 gpd

(9) There is probably no water hauled to outlying areas on days of peak water use, but items D6 and D8 indicate that at least 10,000 gallons of water were used from storage on days of peak visitor use. This could be supplied from Cliff Dwelling Spring if sanitary objections were eliminated.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE

Washington 25, D. C.

November 28, 1947.

Report on Water Use Under Water Right Permit A-1093 North Rim - Grand Canyon National Park

By

A. van V. Dunn,
Chief, Water Resources Branch

The writer visited the North Rim of Grand Canyon National Park in July 1947 to investigate the extent of use of the waters of the Roaring Springs under Water Right Application No. A-1765, Permit No. A-1093. The application is for the diversion and use of 150,000 gallons per day; and the permit, by former extensions of time, required that construction should be completed by December 31, 1947, and the water should be fully used by December 31, 1948. The investigation was to determine whether proof of construction and full water use could be made this winter, or if another extension of time would be needed.

It was found that the pump units now have a capacity of 96 gallons per minute and maintain the present water use of approximately 86,400 gallons per day when operating 16 hours per day. This water supply is adequate for the domestic demands of the related hotel, campground, and employee residential developments now existing in the area. However, these related developments are now being used to capacity and more water will be needed when they are enlarged. In addition, so far as there may have been irrigation of the area before the war, this water use has been abandoned by the concessioner as an economy measure, and the resumption of such activity would require either increased pump capacity or longer hours of pumping with the present installation. Increasing water use by longer hours of pumping is practical to supply some additional domestic demand, but it is not recommended that the supply and demand be allowed to reach a 24-hour pump schedule, and such operation would not provide but 129,600 of the authorized 150,000 gallons per day in any case.

pictures not here.

GC-47-D-1
Looking toward Lodge from approach road near parking area. A few of the sleeping cabins are visible under trees on right. Cars are parked behind trees on left.

Closer view of central building of Lodge. One of the deluxe cabins is shown on left, beyond one of the few irrigable lawns in the developed area.

From photographs GC-47-D-1 and GC-47-D-2 it is evident that very little of the area is adaptable to irrigation. A few grassy plots, like that in the lower left of GC-47-D-2 might be improved by such irrigation, but the need was not too evident in mid-July. The hotel and other developments are set in predominantly forested land which requires no irrigation. Irrigation, therefore, is a minor factor in the water demand and proof under Permit A-1093.

As shown in the appendix, the present public facilities create a domestic water demand approximately equal to the supply obtained by pumping 16 hours a day. Further use, therefore, is dependent on the provision of additional accommodations for the public, in lodge cabins, housekeeping cabins, and campgrounds. The increasing visitor attendance--25% greater in the Park in 1947 than in 1946, and 16% greater on the North Rim--indicates that more facilities are needed.

The Federal developments are now restricted by inadequate appropriations. The concessioner's developments are all deferred until the new concession contracts are approved by the Secretary, according to Mr. George A. Croft, Superintendent of Maintenance for the Utah Parks Company. Whether the visitor increase would have been as great on the North Rim as in the Park as a whole, in 1947, if there had been the facilities, there is not going to be any full use of the authorized quantity of water in one or two years, or even the provision of facilities for such use if the potential demand is created by increasing recreational travel.

The water system, from diversion to distribution reservoir, and the distribution system serving the Lodge, were built by the Utah Parks Company. The National Park Service has provided additional distribution system to serve its headquarters and the campground. The National Park Service has initiated all water rights in the name of the United States, and has expressed its intentions to provide all future utilities in its areas and to acquire those now owned by concessioners when appropriations will permit. Presumably, the policy regarding utilities and water rights will be in the new concession contract.

In the case of the North Rim water system, the total cost was estimated at $200,000 in 1937, of which $153,000 had been expended at that time, largely by the Utah Parks Company. There has been little more construction since 1937, but the cost of completing the system now is approximately double that estimated. In considering the

further perfection of water rights, by construction and use of water, it can be recognized that there may be better diligence if the concessioner increases its investment. However, this will also mean extending the time until the National Park Service can fully conform with the policy it has adopted. The Assistant Superintendent of the Park advised in July that the Company would gladly turn over its present investment now, if the National Park Service would assume further maintenance of the system.

The conclusions from the investigation, therefore, are that an extension of time is needed in which to enlarge the water system and make full beneficial use of the water. An application for such extension has been made. In addition, there is now a fairly well balanced development of visitor accommodations and related utilities such as the water system. To increase the water use by 74%, as authorized and probably justified by attendance trends, all public facilities and related utilities must be enlarged proportionately. Proper integration of the activities of the United States, its concessioner, and the public is essential to the preservation and perfection of water rights.

Appendix

A. **Notes on Inspection of North Rim, Grand Canyon - July 1947**

(1) NPS employees and families - 35 people
Lodge employees - 130 people
Lodge guest capacity in 56 deluxe cabins, 42 cabins with toilet and shower, and 178 cabin rooms dependent on central comfort stations - 360 people
Employees in unit of cafeteria and housekeeping cabins - 30 people
Capacity of housekeeping cabins 90, but has taken - 124 people
(Cabins have cold running water and dependent on central comfort stations.)
Campground capacity when full - 145 people

Population of North Rim with facilities full- 824 people

(2) The Lodge is equipped with boiler plant for hot water and steam. There is no laundry, the work being done at Cedar City.

(3) Lawns were irrigated before the war, but the practice now abandoned because of the excessive pumping costs.

(4) Public campground was occupied by 30 employees of Standard Oil Company during summer of 1947 while constructing a new gas station -- a reduction of 30 in North Rim guest capacity.

(5) Pump unit at Roaring Springs now consists of 3 pumps of 32 gpm capacity each. George A. Croft, Supt. of Maintenance, estimated water leakage at 6 gpm in pumps and pump line. Pumps normally operated for 2 8-hour shifts during July and August.

(6) Cliff Dwelling Spring not being used in 1947 because of potential contamination by sewage disposal in the same drainage. (NPS should correct sanitary conditions or decide to allow water rights to lapse before the latter results from statutory limits of nonuse without forfeiture.)

B. Notes from 1947 Records of Attendance and Hotel Operation

	July	August	Season
(1) North Entrance Visitor Count	16,963	17,313	61,336
(2) Hotel and housekeeping cabin registration	9,572	9,472	
(3) Campground registration	1,691	1,789	

C. Visitor-Day Use Study

(1)	Total visitor-days of park use	168,121	170,116
	Total visitors to Park	113,732	116,870
	Average length of visitor stay	1.48 days	1.46 days
(2)	Probable total visitor-day use of North Rim:		
	16,963 x 1.48	25,105	
	17,313 x 1.46		25,277
	Actual visitor-day lodge and housekeeping cabin use (-)	12,181	12,390
	Total campground and transient day use	12,924	12,887
(3)	Total hotel and housekeeping cabin capacity	484	484
	Average daily hotel registration	393	399
	Average percent of capacity	79.2	82.5
(4)	Total campground capacity	145	145
	Average daily campground use at same percentages as hotel use	115	120
	Probable total campground visitor-days in July and August	3,560	3,730
	Probable average length of stay	2.1 days	2.08 days
(5)	Total campground and transient day use	12,924	12,887
	Total probable campground visitor-day use (-)	3,560	3,730
	Probable total transient use	9,364	9,157
	Probable average daily transient visitors	302	295

D. Derivation of Average Daily Water Demand

	July	August
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399 hotel and housekeeping cabin guests at 150 gpc		59,850 "
(4) 115 campground guests at 35 gpc	4,025 "	
120 campground guests at 35 gpc		4,200 "
(5) 302 transients at 15 gpc	4,530 "	
295 transients at 15 gpc		4,425 "
(6) Probable average daily water use at North Rim	78,130 gallons	79,100 gallons
Additional water probably used when accommodations are all full (25% of item D3-D5)	16,876 "	17,118 "
Probable total peak day demand	95,006 "	96,218 "
(7) All water for outlying areas on the North Rim is also hauled from this system.		
(8) Pump capacity, operating 16 hours per day is only	86,400 gpc	86,400 gpd
(9) There is probably no water hauled to outlying areas on days of peak water use, but items D6 and D8 indicate that at least 10,000 gallons of water were used from storage on days of peak visitor use. This could be supplied from Cliff Dwelling Spring if sanitary objections were eliminated.		

Copy 4

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO, ILLINOIS

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

RECEIVED
OCT 3 1945
54

September 27, 1945.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to the memoranda of September 14 from Acting Superintendent Davis to you and this Office with regard to the completion of water right deed assemblies for Grand Canyon National Park.

We enclose two copies of the summary sheet relating to Deed 20 on the basis of the memorandum for you.

By attaching the original letter of April 23, 1942, from State Water Commissioner Wanslee to Mr. Bryant to our copy of the order of the same date extending time under Permit A-1093 (Deed 21) we can probably consider the assembly complete, but we should appreciate having the Superintendent make one more search for the copy of the order which bears Mr. Wanslee's actual signature.

We have located a suitably signed copy of the order of November 9, 1942, extending time under Permit A-1192 (Deed 23).

We still lack the original letter of October 16, 1939, from Mr. Wanslee to Mr. Lloyd regarding Permits Nos. A-1193, A-1194, and A-1195 (Deeds 24, 25, and 26). On the other hand, we find that Mr. Wanslee's letter of August 23, 1941, to Mr. Bryant, had been received previously and filed in Deed 22 instead of Deed 28. It occurs to us, therefore, that the letter of October 16, 1939, might be in Mr. Bryant's files for any one of the three rights to which it applies. Another check would be appreciated, but these letters are only informatory, so it is not absolutely essential to have the original.

If Mr. Bryant cannot find these few remaining instruments we will consider our deeds complete. The next question is whether you have succeeded in completing your assemblies.

R. Reed Dean
Chief, Water Rights Division.

Enclosure 324.
In duplicate.

FOR VICTORY
BUY UNITED STATES WAR BONDS AND STAMPS

Copy to Grand Canyon with one copy of enclosure. (I don't see the enclosure is the "Summary Sheet" Can't locate it in Davis's Memo. of Sept 14) Forwarded 10/18

06-30-1945: memorandum to chief from acting supervisor regarding water rights status on application a-1765 and a-1766

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZONA

NATIONAL PARK SERVICE RECEIVED JUL 3 - 1945 CHIEF CLERK'S OFFICE

Name	Date
Burney	
Dunn	7/2

June 30, 1945.

MEMORANDUM for the Chief, Water Rights Division.

Reference is made to Mr. Dunn's memorandum of June 23, to the Regional Director, Region Three, relative to water rights status on Application A-1765 and A-1766.

Application A-1766 may be reported as completed as of Phantom Ranch this date.

Application A-1765 will require a further extension, as no work on this project has been done. Roaring Springs Dev.

John M. Davis,
Acting Superintendent.

CC: Reg Dir Region Three

06-06-1944: memorandum to regional director from nps regarding posting of notices of appropriating water

Mr. Van Dunn

JUN 10 1944

C
O
P
Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Grand Canyon National Park
Grand Canyon, Arizona

June 6, 1944.

MEMORANDUM for the Regional Director, Region Three.

Reference is made to Hydraulic Engineer Dunn's memorandum of June 1 to you (copy of which was air mailed to this office) concerning posting of notices of appropriating water.

On February 27, 1937, former Superintendent Tillotson wrote the Director (a copy of which was sent Attorney Taylor) in substance that the posting of notices was not required "except in unusual cases involving the appropriation of large quantities of water and where there was likely to be controversy." This is substantiated by a letter from former State Water Commissioner Stewart under date of February 17, 1937.

No posting or advertising has been done by this park in connection with any Water Rights Applications.

(sgd.) John M. Davis
John M. Davis,
Assistant Superintendent.

11-25-1942: memorandum to regional director from nps regarding extensions of time

Mr. Dunn.

UNITED STATES

DEPARTMENT OF THE INTERIOR

NATIONAL PARK SERVICE
WATER RIGHTS SECTION

SAN FRANCISCO, CALIF.

601 Sheldon Building

November 25, 1942.

MEMORANDUM for the Regional Director, Region Three.

A copy of the State Water Commissioner's letter of November 19, in reply to mine of November 16, with regard to extensions of time, is enclosed. This is a very fine explanation, although he seems to have confused Toroweap Wash Lake with some Jacobs Lake. It certainly answers the questions of beginning of construction which I did not ask directly.

It would appear that all that is needed is a frank gesture to retain priorities for systems that have not been started. His letter of November 10 now seems to have the following meaning:

Application A-1878, Grand Canyon National Park -
Extension of time granted as stated because ditch has previously been reported constructed.

Application A-1765, Grand Canyon National Park -
Protected until 1945 when further extension of time must be requested. System has been reported complete for present capacity.

Application A-1799, Chiricahua National Monument -
Already reported largely complete. Must request extension of time next September.

Application R-454, Grand Canyon National Monument -
Must request extension of time in August 1944, but it will be granted since the dam is built whether it holds water or not.

Applications A-1880 and A-1881, Grand Canyon National Park -
Seem to have been accepted as under construction due to some previous misunderstanding, otherwise they would have lapsed. Why no extension is needed this Friday is not

clear, but I suggest we wait for him to notify us of further needed action or until construction is ready to start. We may lose some priority, but can do nothing if construction is not started. The line from Bright Angel Creek to Cardon Creek is too great a project and the diversion point is subject to such change by erosion that it would be better to sacrifice the priority than sham work.

Hydraulic Engineer.

AxVD:SH
Enclosure 2122078.

cc: Director.
Supt., Grand Canyon.
Supt., S.W.Monuments.

05-01-1942: memorandum to regional director from nps regarding order granted by the state engineer for extension of time



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA

Bryant

ACTION	
Superintendent	✓
Asst. Supt.	
Chief Landscape Arch.	
Chief Clerk	✓
Engineer	
Naturalist	
CCC Supt.	
Prepare Reply	
Comment	
Your Use	

May 1, 1942.

MEMORANDUM for the Regional Director, Region Three:

We enclose a copy of an order granted by the State Engineer for extension of time from June 28, 1942, to December 31, 1945, within which to complete construction work under the terms of Permit No. A-1093 for the diversion of the waters of Roaring Springs for the North Rim at Grand Canyon.

We are also taking steps at this time to perfect the later permit for diversion of Cliff Dwelling Spring for the same area, thus completing one of the two rights at this time and leaving the other open as long as possible in order to obtain the maximum quantity of water.

(SGD.) A. WM V. BURN

Hydraulic Engineer.

Enclosure 2121971.

copy sent to Mr. W. J. Larsen, Supt., Utah Parks Company, 5/11/42 WBB

cc: Director, with copy of order.
Supt. Bryant.

04-20-1942: memorandum to superintendent from nps regarding roaring springs water right



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA

ACTION	
✓ Superintendent	
✓ Asst. Supt.	
Chief Ranger	
Chief Clerk	
~~Engineer~~ C.W.C.	✓
Naturalist	
COC Supt.	
Prepare Reply	✓
Comment	
For Use	

April 20, 1942.

MEMORANDUM for the Superintendent,
Grand Canyon National Park.

Reference is made to your memorandum of April 14 regarding the Roaring Springs water right on the North Rim of Grand Canyon, and also to the Cliff Dwelling Spring water right.

We enclose a draft of a suggested letter to the State Water Commissioner requesting an extension of time in which to complete Water Right Application 1765, Permit 1093, for the diversion from Roaring Springs. We assume that you prefer to have this letter on your own stationery and you may wish to express the ideas in a slightly different manner, as all we are offering is our ideas. May we request that you send copies of the letter as finally drawn to this office, the Director, and Regional Director.

We also enclose five copies of a Notice of Complete Application of Water to Beneficial Use covering Water Right Application A-2254, Permit A-1514, for diversions from Cliff Dwelling Spring. All copies should be signed and the white original sent to the State Engineer. The additional copies are for your files, those of the Director, Regional Director, and this office, after you have executed them.

There may be a fee for the Certificate of Water Right which should be issued on receipt of the Notice of Complete Application of Water to a Beneficial Use. If this is requested by the Water Commissioner, please pay it and bill us accordingly. We shall also wish to borrow the copies of any correspondence and the Certificate when they are received in order to make copies for the other files.

O. David Dunn
Hydraulic Engineer.

Enclosure 2121957.

cc: Director.
Region Three.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZONA

APR 17 1942
Initials Date
4/18/42
4/15 P.M.
FILE

April 14, 1942.

MEMORANDUM for the Regional Director, Region Four.

Attention: Hydraulic Engineer

Reference is made to yours of April 10 regarding Water Right Application A-1765, Permit A-1093, for the appropriation of water from Roaring Springs for use on the North Rim.

After considerable discussion about the subject matter it has been decided that your suggestion to request an extension of time would no doubt be the best procedure in protecting our present rights, and still allow time for installation of additional equipment which, as you know, has been under contemplation.

There is sufficient water available to take care of our estimated full usage of 150,000 g. p. d. if and when additional facilities are installed. However, with the decreased travel anticipated for the duration, there is little or no need for more water than is now being pumped and I am sure the Operator has no immediate plans for increasing the capacity of either the pumps or power.

If possible to get it, I would suggest that a request for a five year extension be made. That should cover the duration and a return to a normal travel season.

Relative to Application A-2254, Permit A-1514, for the diversion of Cliff Dwelling Spring, there is no further information on the date of full use than that furnished you in Mr. Kittredge's memorandum of April 15, 1941 in which he said "----- that the project was commenced in July, 1940, and completed in August, 1940 and placed in full use during the same year". Probably the first week in September would be okay as their season is practically over by the middle of September.

/s/ C. Bryant
Superintendent.



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA

	ACTION	
✓	Superintendent	
✓	Asst. Supt.	
	Chief Ranger	
	Chief Clerk	
✓	Engineer	✓
	Naturalist	
	CCC Supt.	
	Prepare Reply	
	Comment	
	Your Use	

April 10, 1942.

MEMORANDUM for the Superintendent,
Grand Canyon National Park:

Reference is made to your memorandum of March 13, 1942, regarding further proof under Water Right Application A-1765, Permit A-1093, for the appropriation of Roaring Springs for the North Rim.

There are two proofs to be made — namely, completion of construction this June and full application of 150,000 gpd of water by June 1943. We can file both now if you wish, but the effect of immediate proof of use is not entirely clear.

I assumed the system to be complete in writing on March 10 because you had to initiate the right to Cliff Dwelling Spring, but our records show an installed pump capacity of only 40 gpm or 57,600 gpd pumping continuously, while the permit is for increased capacity and use of 150,000 gpd. Unless you now have a pump capacity of at least 110 gpm it would seem better to request an extension of time in which to provide the maximum capacity authorized, or as much thereof as the source of supply and increasing demand will justify. If you are already diverting the full spring flow and not obtaining 150,000 gpd it might be well to transfer the undiverted portion of the quantity to the next source of supply you propose to develop. This would be arranged in connection with a request for extension of time.

We have a municipal status at the North Rim, so extension of time in which to make full use can be expected. It is also inconsistent to claim municipal use and then indicate a static population at any less than the full right covered by the permit. On the other hand, if the source of supply is exhausted we should consider another source and either transfer part of the right or file a new one.

If you are sure that you wish to complete the right now please advise of the amendments we should make in the pump unit description (5c of application) and in the pipe diameters (6b). It seems to me, too, that we decided some time ago that the full 150,000 gpd was also going to place an undue strain on the 300 HP power development unless you found another power source for the actual rim

development. Therefore, if we are making full diversion for municipal use I wonder if we should file another power application for diversions in excess of 12 sec. ft. now perfected under Application A-1764, Permit A-1092.

If we are to report completion of construction or completion of full beneficial use we shall also have to know the date at which either was done.

Your attention is also called to Application A-2254, Permit A-1514, for diversion of Cliff Dwelling Spring. This involves only 11,000 gpd and we reported the system complete in May 1941. It seems quite probable that we can complete that right if you will supply some date or week of the past year when that diversion was made and fully used.

R. Grant Dunn
Hydraulic Engineer.

03-13-1942: memorandum to regional director from nps regarding water right application no. a-1765, permit no. a-1093

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZONA

MAR 16 1942
Ans 4/10/42

March 13, 1942.
FILE

For ~~Hydraulic~~ Engineer.

MEMORANDUM for the Regional Director, Region Four.

Reference is made to your memorandum of March 10, relative to Water Right Application No. A-1765, Permit No. A-1093, North Rim Water System.

I see no reason why we should not now submit a "Notice of Complete Application of Water to Beneficial Use", as there are no plans, of which I am aware, for enlarging the system or increasing the use.

It would, therefore, be appreciated if you would prepare these notices for my signature, and I will send them on to the Commission with the required fee which I believe is $3.50.

H. C. Bryant
Superintendent.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA
601 Sheldon Building



March 10, 1942.

MEMORANDUM for the Superintendent,
Grand Canyon National Park:

Reference is made to Water Right Application No. A-1765, Permit No. A-1093, for the main North Rim Water System.

Our records show that the construction must be completed by June 28, 1942, unless we request an extension of time. I believe construction is complete unless you have plans for further expansion. Please compare the application with actual conditions and your latest plans and advise us of the action to be taken.

This is also to advise that we have ordered the certified copy of the Phantom Ranch application and should receive it in a few days.

R. Grant Lewis
Hydraulic Engineer.

cc: Director.
Regional Director, Region Three.

	ACTION	
✓	Superintendent	
	Asst.	
	Chief Ranger	
✓	Chief Clerk	
✓	Engineer	✓ cmc.
	Naturalist	
	CCC Supt.	
	Prepare Reply	
	Comment	
	Your Use	

06-05-1941: memorandum to superintendent from associate attorney regarding purport of the recently enacted amendment to the

601 Sheldon Building

June 5, 1941

MEMORANDUM for Superintendent Kittridge,
Grand Canyon National Park:

In response to your inquiry of May 27 concerning the purport of the recently enacted amendment to the Arizona Water Code known as Senate Bill No. 55, will state that you are correct in being of the opinion that it does not affect our present filings. It accomplishes the purpose for which we were striving in 1936 and 1937 under Superintendent Tillotson. In other words, we can now file for water rights for fish and wildlife purposes and use some of the designated natural reservoirs mentioned in our preliminary water rights survey of Grand Canyon.

I believe the Water Commissioner and the Water Rights Section will both be gratified to make use of the new law to enable us to make further water right filings for the protection of wildlife there.

[redacted]

Associate Attorney

cc: Regional Director, Region Three
Director

AJ:as

FILE COPY

12-23-1937: memorandum to files from superintendent regarding application no. a-1765, permit no. a-1093

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZ.

December 23, 1937.

Memorandum for the Files:

In connection with the attached Application Number A-1765, Permit Number A-1093, covering the appropriation of water from Roaring Springs for municipal use on the North Rim, it will be noted that the permit provides for construction work to be completed on or before June 28, 1942, and that complete application of the water to the proposed use shall be made on or before June 28, 1943.

Although the construction work was really completed at the time application for a permit was made, it was thought that there might be some additions to the pumping, storage or distribution system. For this reason, the 1942 date was requested to allow the total completion of the system by any possible additions.

No further action on this permit is required at the present time. However, if and when such additional construction work is started, there must be filed with the State Water Commission, Notice of Beginning of Additional Construction. Furthermore, on or about June 28, 1943 there must be filed with the State Water Commission, formal Notice of Proof of Appropriation of Water. Upon filing of such notice and payment of the required fee ($3.50 at present) a Certificate of Water Right will be issued by the State Water Commission. In that connection, reference is made to Chief Engineer Prater's letter of July 21, 1937, in which he states that construction work was started on the Roaring Springs water supply system on August 24, 1927; that the work was completed on March 27, 1928, and that water from this system was first delivered to the North Rim on approximately April 1, 1928.

M. R. Tillotson,
Superintendent.

CC: [redacted],
[redacted].

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZ.

RECD APR 23 1937

April 21, 1937.

Ans. 4/26 — J.E.T.

Mr. Joseph E. Taylor,
Attorney at Law,
U. S. Department of the Interior,
110 Sutter Street,
San Francisco, Calif.

Dear Mr. Taylor:

While in Phoenix last week I called on State Water Commissioner Edwin T. Stewart to make a filing in person of the application papers sent me with your letter of April 2. I received, in Phoenix, your wire advising that the correct bearing questioned by my letter of April 9 was South 46° 50' East, as shown on the map. I therefore corrected accordingly the typewritten description as given in the body of the application.

A few minor changes and corrections were required by Mr. Stewart before he accepted the application. These were made in accordance with his suggestions and are described as follows:

In Connection with the Power Application.

1. Since the water from Roaring Springs actually follow a natural channel before emptying into Bright Angel Creek, paragraph 1 was changed to read as follows:

"The source of the proposed appropriation is Roaring Springs, a tributary of Roaring Springs Creek, which is a tributary of Bright Angel Creek."

2. Under paragraph 8, Mr. Stewart said that it would be inconsistent to state that the project was completed at a cost of $153,452.00 and, under the same paragraph, to state that it was proposed to complete construction within five years and to completely apply the water to the proposed use five years after the present date. I therefore changed this paragraph to read as follows:

"The estimated cost of the proposed project is $200,000.00 ($153,452.00 now expended). It is proposed to begin additional construction within one year after the approval

of this application, to complete construction within four years thereafter, and to completely apply the water to the proposed use five years after the beginning of construction."

3. A more definite description as to the point of use was desired. On the remaining blank spaces under paragraph 21 I therefore added the following:

"NOTE: The water is pumped from point of diversion to the distribution tanks described under Par. 7 and from these tanks, by means of mains and laterals, the water is distributed to the various places of use at Headquarters of Grand Canyon National Park on the North Rim of Grand Canyon (Bright Angel Point) located in Sec. 3, T. 32 N. R. 3 E. and Sec. 34, T. 33 N. R. 3 E, G. & S. R. B&M, (unsurveyed) in Coconino County, Arizona."

4. Mr. Stewart said that the application should be signed "United States of America, by M. R. Tillotson, Superintendent, Grand Canyon National Park." I therefore corrected the application in this respect.

With Regard to the Application for Power Use

In order to give a more detailed description as requested by Mr. Stewart, I added on the blank spaces under paragraph 21, the following:

"Power is now transmitted by a line extending northerly from the Power Plant to applicant's plant in the SW¼ SE¼ of Sec. 2, T. 32 N. R. 3 E. (unsurveyed), which pumps the municipal water supply, about 50% of the power being used for this purpose. The line then extends northwesterly, approximately following the applicant's municipal water supply pipe line to Headquarters of Grand Canyon National Park on the North Rim of Grand Canyon (Bright Angel Point) located in Sec. 3 T 32 N, R 3 E and Sec. 34, T. 33 N. R. 3 E, (unsurveyed) in Coconino County, Arizona, where the power is distributed and used."

The signature on this application was made to conform to that for municipal use as explained under Paragraph 4 above.

I never would have gotten these filings accepted had I not made a personal appearance at Mr. Stewart's office. As it was, it took me the better part of two afternoons, but I believe that they are now all in the required shape. At any rate, Mr. Stewart, indicated no further objection to acceptance of the applications.

Very Sincerely Yours,

M. R. Tillotson,
Superintendent.

NATIONAL PARK SERVICE

Branch of Land Acquisition and Regulation
Legal Division

Report
On
Investigation of Water Rights
For Grand Canyon and Southwestern Monuments

By

A. van V. Dunn
Associate Engineer

San Francisco, Calif.,
December 17, 1936.

Introduction

This report constitutes a review of my activities on a trip to Arizona in connection with National Park Service water rights in that State. The trip was made in the company of Associate Attorney Albert L. Johnson, on instructions from Attorney Joseph E. Taylor of the Branch of Land Acquisition and Regulation.

We left San Francisco November 29, and returned December 11. We visited Grand Canyon, Casa Grande, Phoenix, and Los Angeles.

Grand Canyon

At Grand Canyon we found that Superintendent Tillotson was away on leave, but outlined our program to Acting Superintendent Lloyd, and arranged for an interview with Mr. Tillotson in Phoenix. We also discussed the various water systems of the Park with Park Engineer Carrel.

The desirable water rights for the Park are as follows:

1. Indian Gardens supply for South Rim, 300,000 g.p.d., which is the full flow of the source of supply. We were able to file the application on this supply while in Phoenix, and arrange for the map, which will be submitted within thirty days, after incorporating data obtained from the Santa Fe Railway Company in Los Angeles.

2. Union Pacific Hydro-electric Development on Bright Angel Creek for North Rim, 5 second feet.

3. Roaring Spring Supply for North Rim, 30,000 g.p.d. during four summer months.

Only part of the necessary data for filing on these two systems was available in the Park, so Mr. Lloyd wrote to the Union Pacific for the additional information. When this is received, maps and applications will require two to three weeks of office work.

4. Fish Hatchery (proposed) on Roaring Spring, 1/2 second foot.

5. Fifteen Impounding Dams for Wild Life, 225 acre feet, of which twelve dams are now constructed. By specifications of the State Water Code, Wild Life and Fish are not recognized as beneficial use, so that these two items are not now subject to appropriation. However, the Park can lose the water through private filings below its boundary for recognized beneficial use, and the State is anxious to liberalize its code, so it would seem highly desirable to have as much correspondence on the matter with the State as possible. Mr. Tillotson has agreed to write one letter to place his problems on record.

6. Cottonwood Camp Supply, 300 g.p.d., and irrigation of five acres. The maps and application will require a part of a week of office work.

7. Clear Creek (proposed), 100 gallons per week, and irrigation of ten acres. A preliminary application and map were prepared in the field, for use as an illustration with the Water Commission, and can be completed and filed very quickly.

8. Phantom Ranch on Bright Angel Creek, 7000 g.p.d. present use and irrigation of twenty acres. It is also proposed to divert 1/2 second foot to augment the Indian Gardens supply for the South Rim, and the Fred Harvey interests are considering a hydro-electric plant which might require an additional five or six second feet. This combined system may be partially combined with items 2 and 3, and will require approximately a month of office work. The data is now on file in the office of the Chief Engineer, but will require considerable modification for use.

Except for the developments by the Union Pacific, data for filing can now be prepared from data obtained in the interview with Mr. Carrel, or from maps in the office of the Chief Engineer.

Southwestern Monuments

In our interview with Superintendent Pinkley at Casa Grande, we discussed all Southwestern Monuments, irrespective of State boundaries. The following tabulation of Mr. Pinkley's problems is clearly more of adjustments and legal interpretations than of actual filing on rights in the various states. Without doubt, Mr. Johnson will be able to adjust many of these problems during the next few months.

1. Montezuma National Monument, Arizona:

Domestic use is from wells which are not subject to appropriation.

Beaver Creek should be appropriated for much needed irrigation. (Water from the Coolidge Dam has been refused for some reason, though the ditches bound the monument on two sides.) There is a controversy over this water, however, as there is already a diversion for an unpatented homestead, and the homesteader wishes to use the diversion as proof in his patent. Either an adjustment between the United States and this homesteader, or haste in obtaining first priority for the Park Service, seems necessary if the monument is to be protected on the irrigation of 20 acres.

2. Pipe Springs National Monument, Arizona:

These springs were first developed and used by the Mormons about 1870. An interdepartmental agreement was reached in 1933, granting 5 g.p.m. to the neighboring stockmen, 75% of the remainder (approximately 30 g.p.m.) to the Indian Service, and the remainder to the monument. Neither Mr. Pinkley nor the stockmen seems satisfied with the agreement. Disregarding the allocation of the water, further investigation is needed to determine whether proper filings have been made for appropriation by the United States.

3. Chiricahua National Monument, Arizona:

The present supply is from a spring. Further study is needed to determine whether this spring is subject to appropriation. There is also a stream which Mr. Pinkley does not regard as a necessary supply at this time. It seems possible, however, that commingling the waters of the spring and stream to make both subject to appropriation, might provide greater protection.

4. Tonto National Monument, Arizona:

A small spring on this monument does not flow beyond boundary. It has been used as watering hole, and farmers would protest fencing the area. Further investigation should be made toward protecting the monument rights.

5. Tumacacori National Monument, Arizona:

An irrigation ditch crosses the monument, but does not supply water to, or concern the monument. The monument will obtain its water from a well or precipitation.

6. Walnut Canyon, Arizona:

Water is needed, but there is only an intermittent flow in the canyon. The Santa Fe Railway Company built an impounding dam below the monument, which does not hold water. The Park Service plans a metal catchment for precipitation, but it might be well to file on an impounding dam until further study of local conditions can be made.

7. Wupatki National Monument, Arizona:

A spring of 4 to 5 g.p.m. now flows off of the monument in pipe layed in 1927 by Babbitt Brothers Sheep Company. Babbitt Brothers wish to take up the pipe, but the Park Service questions title to the pipe. Mr. Pinkley does not wish water now, but wishes to protect rights for future. He prefers having stock watered off of monument. He wishes legal advice, which Mr. Johnson will doubtless provide.

8. Kofa and Organ Pipe National Monuments, Arizona:

These prospective monuments need water. Possible sources should be studied, and appropriation made if possible.

9. White Sands National Monument, New Mexico:

It is planned to try to sink a suitable well for domestic use. The "artesian well", at the Pool of Siloam, was created by man in drilling for oil, and as such is not technically subject to appropriation.

10. Bandelier National Monument, New Mexico:

The source of supply is Frijoles Creek, which is also used by the operator to irrigate her garden in the monument. The operator claims her right through an old filing by Judge Abbott, though neither the operator nor Judge Abbott owns the land. Since it is desirable to eliminate the operator's garden, Mr. Pinkley wishes to prove the Abbott filing inactive if possible. A Park Service filing should be made, and a thorough study of its relation to the one of Judge Abbott.

11. Arches National Monument, Utah:

A small spring is to be developed, but both filing and development are dependent on acquisition of the land on which the spring is located.

12. Hovenweep National Monument, Utah and Colorado:

There is no water on the portion of the monument in Colorado, and no plan to provide any. A small spring in Utah will be needed for domestic supply, and should be filed upon. Mr. Pinkley is not sure whether the spring has been used before or not, and the matter should be investigated.

13. Yucca House National Monument, Colorado:

A small spring now serves a watering hole outside the monument by pipe. Mr. Pinkley favors maintaining the watering hole to keep stock off of the monument, but wishes to retain or establish a monument right. He has requested legal advice, which Mr. Johnson will doubtless supply.

Arizona Water Code

Portions of three days were spent in conferences with the Arizona State Water Commissioner, Mr. Stewart, and his Deputy, Mrs. Harrison, to obtain a more complete knowledge of the Code, its interpretation, and adaptation to Park Service problems.

The specific wording of the Code restricts the waters which can be appropriated to those for six uses. In the case of the parks, water for fish hatcheries and wild life watering holes cannot be recognized as beneficial use at this time. At the same time, the Commissioner wishes to liberalize the Code, and requested letters explaining the need for these uses. Superintendent Tillotson agreed to write such a letter, and it seems desirable for others to do the same if possible. Unfortunately, the number of parks and monuments with wild life problems, in Arizona, are limited.

Another complication in filing on Park Service water is the complicated system so often needed in a park, and the inadequacy of the State application form. This form was prepared previously for irrigation applications, and does not provide the mechanical flexibility for dealing with pump systems from several sources. However, Mr. Stewart approved of the use of riders until the forms can be modified.

Arizona does not recognize percolating water as subject to appropriation, but does recognize stream flow in a well defined channel, even though this water may all flow underground during much of the year. Further, springs in the bed of a stream are regarded as part of the stream, while those on a stream bank are separate springs and need separate filings unless their waters are commingled with those of the stream. Further, a spring on the stream bank which did not flow, but merely dampened the ground before development by man, is regarded as percolating water, and no more subject to appropriation than the water from a well. Precipitation or flood water, before it reaches a natural channel, belongs to the land, and is not subject to appropriation. Yet appropriation is necessary for storage, even though only in a tank or small reservoir. These interpretations make it difficult to treat many of the proposed park filings, but the Commission is anxious to liberalize its Code, and glad to accept questionable cases for submission to the State Supreme Court.

Water used prior to 1919, prior to the adoption of the Water Code, has valid rights when the use can be proved. Even though the Park Service did not make active use before that date, many of its rights are going to be influenced by earlier private use. The situation at Pipe Springs is a good example, though it cannot be fully understood until the interdepartmental agreement is studied by Mr. Johnson.

Municipal use has not been fully settled in Arizona. The Commissioner agreed that many parks have use more nearly like that of a municipality than is considered under domestic use. He has also allowed a small summer colony to file an application for municipal use, even though the 500 inhabitants are only there three months out of the year. On this basis, we have been advised to file on "Municipal and Domestic Use" for the North and South Rim Systems at Grand Canyon, in order to permit anticipating future increased demands. The acceptance of the application will then be up to the State Supreme Court, but in any case, priority will date from the date of the application by the Park Service.

Applications

On December 9, while Superintendent Tillotson was in Phoenix, an application was filed on the Indian Gardens water supply for the South Rim of Grand Canyon. The map to accompany this application will be filed within the next thirty days. It needed certain additions, the data for which was obtained from the Santa Fe Railway Company in Los Angeles on the return trip to San Francisco.

Conclusions

From the data obtained, two types of problems are involved in the water right filings for Arizona. Grand Canyon requires a great deal of routine work to be done in compiling the necessary maps. There is full justification for a draftsman to prepare the complicated tracings. There are between two and three months steady work for a draftsmen and myself. Although the Southwestern Monuments will also require maps, they will be relatively simple in comparison with the legal investigations with which Mr. Johnson is more familiar.

CC: Director.
Mr. Tillotson.
Mr. Pinkley.
Mr. Kittredge.
Mr. Dunn.

11-21-1936: letter to superintendent from nps regarding additional instructions from washington to file on water rights

FILE COPY

November 21, 1936.

Mr. M. R. Tillotson,
Superintendent,
Grand Canyon National Park,
Grand Canyon, Arizona.

Dear Mr. Tillotson:

We have just had additional instructions from Washington to file on water rights at Grand Canyon as soon as possible, and Mr. Dunn is now preparing certain plans in accordance with the State requirements for such filings. We find, however, that certain additional data and explanation will be necessary before completing the necessary papers for these filings, and should appreciate your check of quantities.

We propose to file on 323,000 gallons a day at Indian Gardens for the South Rim water system, and we have the data necessary for the map for such filings except that the line should be tied to a section corner. We find that you have located the corner common to Sections 23, 24, 25, and 26 on the topography of the golf course area south of the administration area. We should appreciate the coordinates which Mr. Carrell used for plotting this section corner and those for the center of the large storage reservoir or of Station 0+00 of the Harvey pipe line on the valve box on this reservoir in order that we may compute a tie to the section corner. We must also know the type of pump and motor and their capacities at each the main pump station and the rehandling station in Indian Gardens.

On the North Rim we should like to combine several of the water rights if possible, but are somewhat uncertain as to the practicability. As we understand it, the Union Pacific hydro plant and Phantom Ranch areas both derive their water from Bright Angel Creek, and it might be possible to cover them with one filing even though there would be two points of diversion. The quantity of water would be 5 second feet for the hydro electric power and 1-1/3 second feet for Phantom Ranch. Of this latter, 1/2 second foot or 323,000 gallons a day to be for domestic use, and the balance for irrigation, with the idea that some of the irrigation water might later be converted to domestic use to augment the supply from Indian Gardens and the South Rim.

In order to file on any of this water for irrigation we will have to show an adequate acreage to justify the quantity, and should appreciate an estimate of the land that can be so irrigated.

In preparing the maps for the Bright Angel rights we will have to obtain maps showing the actual alignment and points of diversion as they have been constructed, and find no such data in the office of the Chief Engineer. Probably a print of the Union Pacific maps for the hydro plant and the Harvey map at Phantom Ranch would supply this data.

In addition we should know the size of penstock, theoretical horse power of the generator unit and types of wheel and generator used, the size and description of the pumps and motors and size of pipe at Phantom Ranch, also the size of ditch, grade, and type of diversion works used on the irrigation system.

We are not quite clear on the use of Roaring Springs, but gather that it is used for all domestic water on the North Rim, and is to be used in the near future for a fish hatchery besides, and that you recommended a half second foot as the quantity. We find, though, that the flow is approximately 7½ second feet, and wonder if it would not be better to file on 1 or 2 second feet in order to have ample supply in the future. In order to prepare the necessary papers for this filing, we shall need a plan or map of the existing water system and descriptions of pumps and motors as described for the other systems above mentioned.

At Clear Creek Canyon we propose to file on 1/4 second foot for domestic and irrigation purposes if you think that is ample for all future needs, but we will need a map giving pipe lines and diversion works to complete our filings on this system.

We are planning to file on all impounding reservoirs for wild life as one filing to include twelve such dams or reservoirs on the South Rim and four on the North, with 165 acre feet on the South Rim and 6 acre feet on the North. To complete these filings we should have an approximate storage capacity for each individual reservoir, and the dimensions of the dam in each case.

We notice, too, in your descriptions of those on the South Rim including those at Ermanita Mesa, Horse Thief, Pasture Wash, etc., you have given their location in quarter sections. The State requires locations by 40-acre subdivisions where possible, and we wonder if you could supply this additional data. In any case we will need some means of locating those you contemplate on the North Rim and the name for each.

We notice you also wish to file on 50 gallons a minute from various springs on the North Rim for wild life purposes, and we should have specific locations and descriptions of the proposed diversions in these cases. In this connection we also have a record of the possible source of supply at Neal Spring, but no data as to what this use was to be or the quantity of water contemplated.

Mr. Dunn and I are planning to be in Arizona shortly after Thanksgiving to discuss some matters with the State Water Commissioner, and can probably have some of the questionable matters listed above explained at that time if we stop at Grand Canyon, but we should like to have as much explained by letter as possible in order that we can have our filings in rough form when we come south.

Inasmuch as the hydro plant and domestic water supply for the North Rim belong to the Union Pacific Railroad, and those at the South Rim and Phantom Ranch belong to the Fred Harvey Company, we wonder if it will not be possible for you to get them to pay the filing fees necessary for these systems.

Sincerely yours,

Albert L. Johnson,
Associate Attorney.

A.van V.D:SH

CC: C. M. Carrel, Park Engr.
A. van V. Dunn, Assoc. Engr.

11-07-1936: letter to nps from attorney regarding search land titles

FILE COPY

November 7, 1936.

The Director,
National Park Service,
Washington, D. C.

Dear Mr. Director:

As suggested by Mr. Tolson while in San Francisco and as authorized by you, Mr. Johnson was specially assigned to search land titles in the Land Registry Office at Los Angeles for the determination of possible land exchanges at Joshua Tree National Monument. Mr. Johnson has filed his report in duplicate with the Branch of Engineering here in San Francisco, and I assume you will receive a copy through that office.

It was deemed more economical to have Mr. Johnson proceed from Los Angeles to Grand Canyon to prepare the ground work for proper filings for that park, and the result of his short stay there is outlined in his memorandum to me of November 6, a copy of which is herewith enclosed.

It occurs to me that now is an opportune time to make proper filings for Grand Canyon National Park for the reason that the State of Arizona should welcome all appropriative filings and beneficial use of water within its boundaries as an aid to adding greater merit to its position in its contest with the six signatory States to the Colorado River Compact. This fact presents an opportunity for generous filings wherever necessary in Arizona, which I feel should not be allowed to pass.

As stated in the last paragraph of Mr. Johnson's memorandum, we will proceed with filings for Grand Canyon, and at the same time make a determination as to any other necessary Arizona filin .

Yours very truly,

Joseph E. Taylor,
Attorney.

Encl.
JET:J

CC: Supt. Pillotson.
Mr. Kittredge.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
BRANCH OF LANDS AND USE
110 SUTTER STREET
SAN FRANCISCO, CALIF.

November 6, 1936.

MEMORANDUM TO MR. JOSEPH E. TAYLOR:

Pursuant to advice from you I made an inspection trip last week to Grand Canyon National Park for the purpose of learning the latest developments on their water rights. It was thought it would be more economical to make this trip from Los Angeles at the conclusion of my special assignment on searching land titles in the Land Registry Office at Los Angeles pertaining to the Joshua Tree National Monument.

Being advised by you and also by the Acting Superintendent of Grand Canyon that Superintendent Tillotson was away from the Park during the first part of my fifteen-day stay in Los Angeles, I wrote the Park asking them to keep me advised as to the date of his expected return. I received word from the Assistant Superintendent about October 21 that Mr. Tillotson would probably be in the Park the last week in October, and asking me to wire when I could come; so I telegraphed on October 26 stating that I would be through with the work in the Land Office on the 27th of October. The Assistant Superintendent telegraphed me to wire them time of arrival. On Tuesday, October 27, I wired that I would leave the next day and be there Thursday morning.

Immediately upon my arrival at Grand Canyon National Park I went to the Superintendent's office and called on Mr. Tillotson in person. He seemed surprised at my arrival, and had no suggestions to offer. However, I learned from him and from the Park Engineer the following day that the status of water rights was the same as when you were in the park in 1935. You and the Park Engineer had then agreed upon a number of filings -- at least six -- which would be required for laying the foundation and perfecting the rights to water now used by the National Park Service at Grand Canyon. I agree that these filings should be made, although there has been no disturbance of the Government water rights nor protest by any private interest. The Superintendent seemed well satisfied that there was no possibility, either physical or legal, of interference with the Government's water rights, although he stated he was not familiar with Arizona law. There are only three or four private owners on the South Rim within the boundary of the national park, but I understood from my short investigation there that those private owners were very jealous of the Government's rights and chary of the National Park Service.

Since the status of affairs at Grand Canyon National Park is largely the same as in 1935 when you made a preliminary investigation, and it is agreed by the attorneys and the Park Engineer that it would be better for the Service to make these filings with the constituted water authority of the State of Arizona, we are about to prepare the necessary applications for the Superintendent to sign, and will then file in person at Phoenix, Arizona. It will be necessary to make a further investigation at the Park and at Phoenix to complete the engineering data for the applications to appropriate water.

Albert L. Johnson,
Associate Attorney.

CC: Director.

06-03-1935: letter to attorney from nps regarding securing water rights form the state of arizona

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
GRAND CANYON NATIONAL PARK
GRAND CANYON, ARIZ.

June 3, 1935

Joseph E. Taylor, Attorney
Yellowstone National Park
Wyoming

Dear Mr. Taylor:

With reference to our recent conversation and discussions relative to the securing from the State of Arizona water rights for Grand Canyon National Park and Grand Canyon National Monument, I wish to make the following recommendations:

1. That a complete survey of the records be made to determine what, if any, prior filings for water rights in this Park and the Monument are recorded;

2. That necessary filings for water rights for both this Park and the Monument be made at the earliest possible date;

3. That, to insure an adequate water supply for the South Rim from the springs at Indian Gardens, filing should be made for 200,000 gallons per day. To provide for the possibility of failure of the Indian Gardens springs and the necessity of procuring this supply from Bright Angel Creek, filing should be made for one and one-third second feet. This will provide water not only for the South Rim but also all use at Phantom Ranch;

4. That filing should be made for 150 acre feet of run-off water on the South Rim from various tributaries of the Colorado River, which is and will be impounded for the purpose of caring for wildlife, and domestic use at outlying stations where direct precipitation is caught on galvanized catchment areas and stored in reservoirs;

5. That filing should be made for one-half second feet of water from Roaring Springs to provide an adequate supply for use at the North Rim Headquarters Area and for a proposed fish hatchery in Roaring Springs Canyon. It will also be necessary to file for five second feet from Bright Angel Creek for hydroelectric power development at mounth of Manzanita Creek. A

portion of this will again be utilized for domestic and irrigation purposes at Cottonwood camp, one mile below the power plant;

6. That filing should be made for one-quarter second feet of flow from Clear Creek for domestic and irrigation purposes at camp ground to be established in Clear Creek Canyon on the north side of the Colorado River;

11-7. That filing should be made for fifty gallons per minute from various springs on the North Rim for preservation and propagate wildlife. Also, filing should be made for six acre feet per year of precipitation and run-off for domestic and wildlife purposes. (9) - 15

Referring to item (3), providing for an additional water supply for the South Rim Headquarters Area from Bright Angel Creek, would advise that in my answer of February 20, 1935, to a letter from the Director of February 7, 1935, I made mention of the feasibility of this project, estimated to cost some $100,000.00. As stated in my letter, this would be a very expensive piece of construction and would require, probably, two years to install.

In this same letter, I touched upon the necessity of renewing the present two inch line now serving Phantom Ranch from Bright Angel Creek with a three inch line and, also, the advisability of relocating the two inch line serving the C. C. C. camp from the Creek bed to connect with the Phantom Ranch line at the existing reservoir.

Item (4) provides for run-off or flood waters carried by various draws lying to the southwest, south, and southeast of the South Rim Headquarters, in which twelve dirt and log dams have been constructed to impound these waters in dirt tanks for wildlife use. Three more dams and tanks are proposed for construction but not programmed. This item also provides for impounding direct precipitation for domestic use at Pasture Wash and Desert View.

Item (5) provides for water necessary for domestic use and fire protection of the North Rim Headquarters Area, jointly occupied by the Union Pacific Railroad and the National Park Service. Provision is also made for the use of water for a proposed fish hatchery as mentioned in my letter to the Director of February 20, 1935. In addition to these, it is necessary to provide water from Bright Angel Creek for hydroelectric power, diversion occurring one-half mile above the power plant by means of a 26" wood stave penstock and returning to the Creek at the plant. This electric energy is transmitted to the North Rim Headquarters Area and jointly used

by the Union Pacific Railroad and National Park Service.

Diversion of this water again occurs one mile below the power plant at Cottonwood by means of irrigation ditches and pipe.

Item (6) makes provision for the use of water flowing in Clear Creek to be utilized for domestic and irrigation purposes. A new trail has just been completed from Phantom Ranch to Clear Creek, and it is proposed to establish a fisherman's camp in the Clear Creek Canyon, providing the usual camp facilities.

Item (7) embraces certain live springs on the North Rim, some of which have been developed, and others in their natural state. Little or no new development is contemplated but the flow in these springs should be protected for wildlife.

Filing for 920 acre feet has been made for run-off and flood waters from Toroweep Valley in Grand Canyon National Monument. It is estimated that this will be sufficient for present and future needs for domestic use at the Headquarters Area, and wildlife purposes.

Two corrected copies of your tabulations are herewith returned.

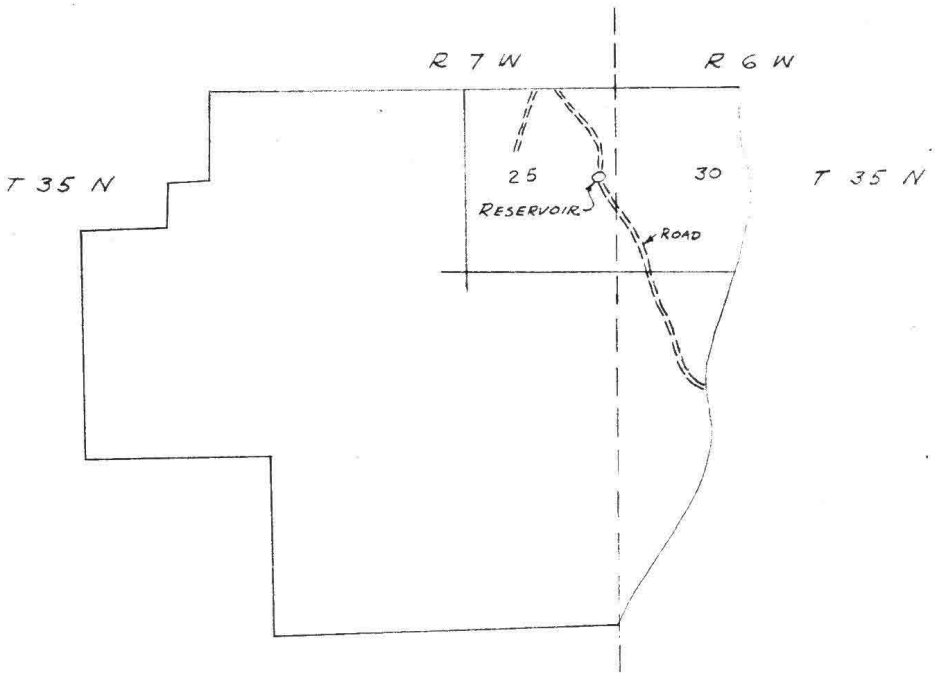
Very truly yours,

M. R. Tillotson,
Superintendent.

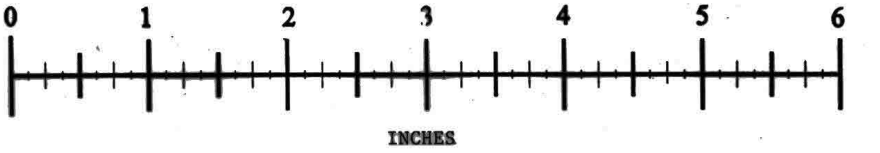
cc-Mr. Taylor
The Director

00-00-0000: sketch of proposed stock reservoir: john schmuts grazing allotment

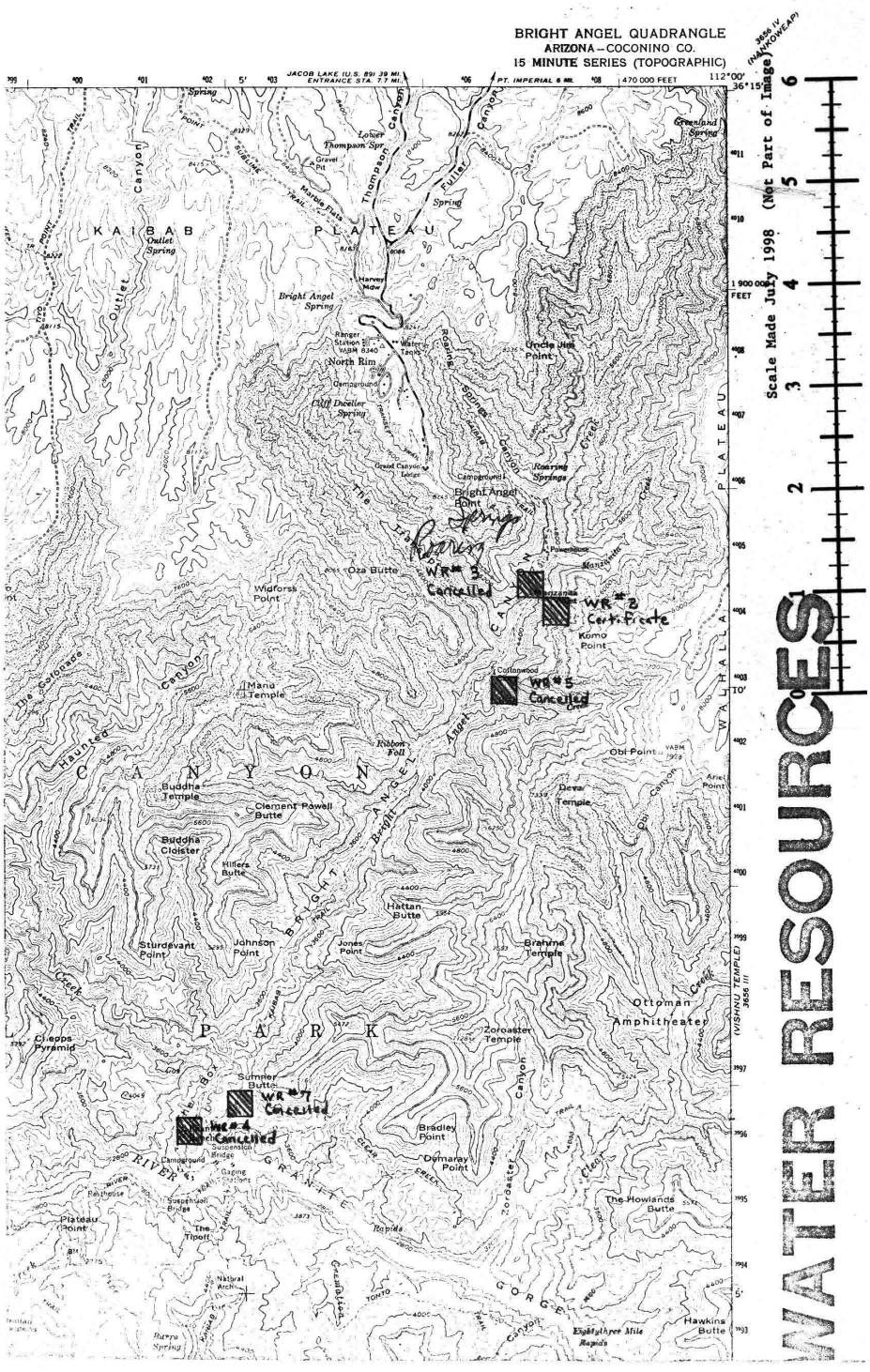
PROPOSED STOCK RESERVOIR
JOHN SCHMUTS GRAZING ALLOTMENT
GRAND CANYON NATIONAL MONUMENT



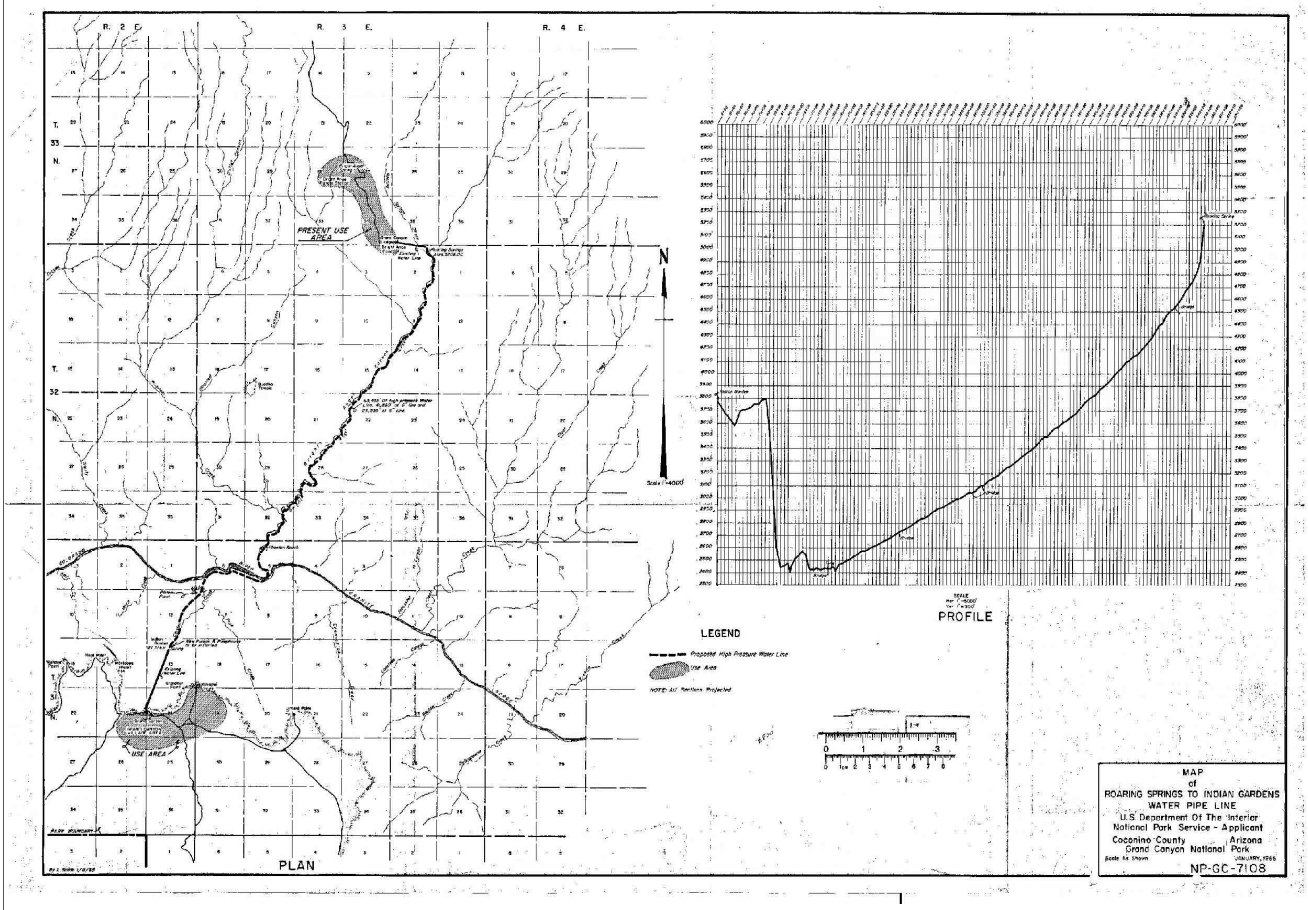
Scale Made July 1998 (Not Part of Image)



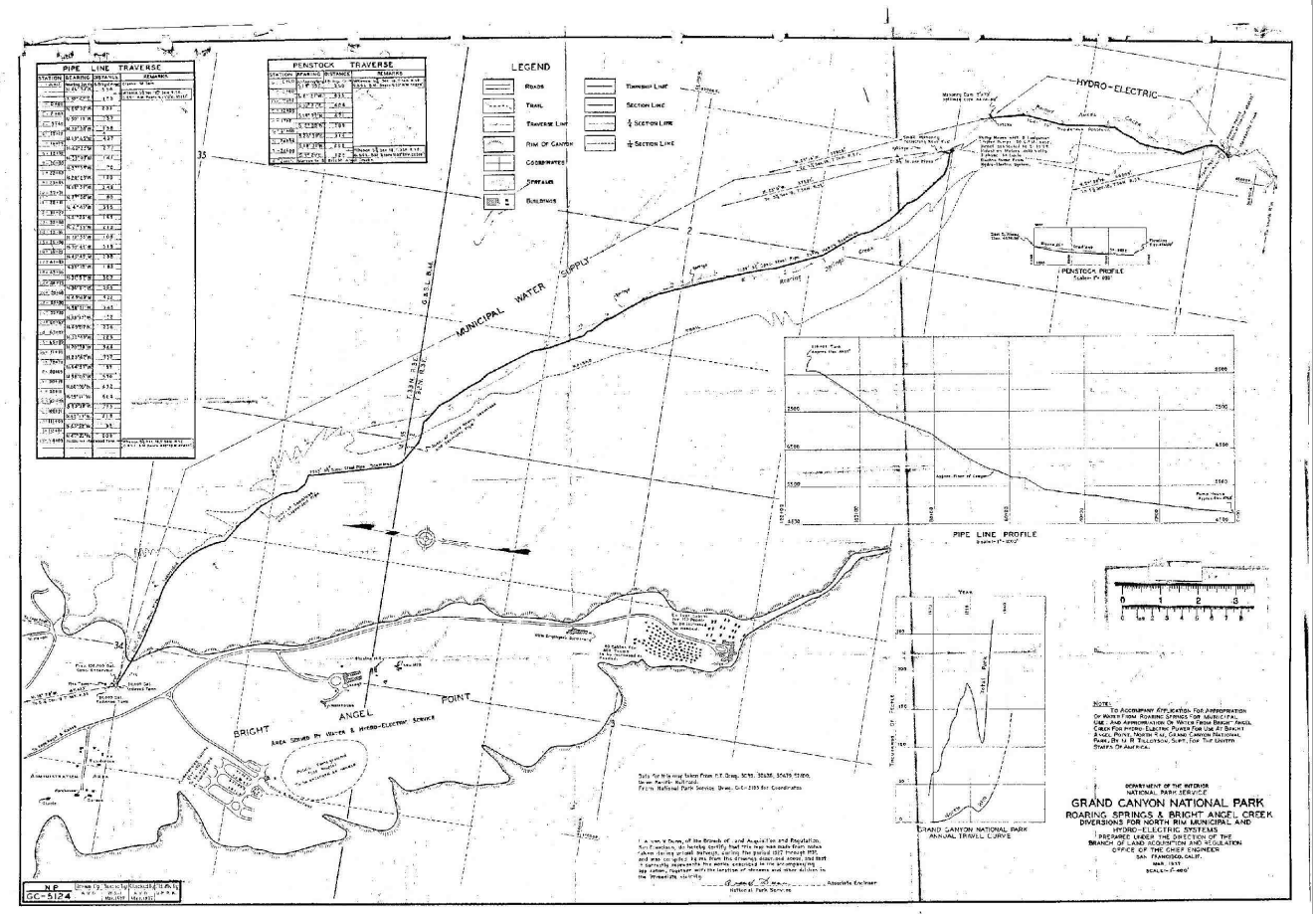
00-00-0000: topographic map of bright angel quadrangle



01-11-1953: map of roaring springs to indian gardens water pipe line



03-00-1937: map of roaring springs and bright angel creek diversion for the north rim systems



Docket Information

Number of Documents in Docket 144

Documents Dated from 6/3/1935 to 1/21/1985

Docket Compiled: 3/24/2011